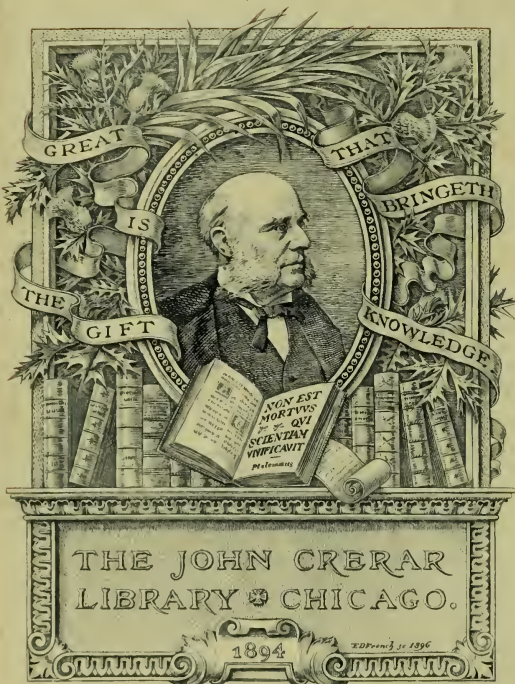




PRESENTED BY

Occidental College



Occidental College Bulletin

NUMBER 2

FEBRUARY 1907

CATALOG NUMBER



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CATALOGUE

OF

Occidental College
and Academy
1906-1907



ANNOUNCEMENT FOR 1907-1908

LOS ANGELES, CALIFORNIA

1907

1908

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DECEMBER

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Calendar

1907

- May 30. Memorial Day. No college exercises.
- June 3-6, 9 a.m. and 2 p.m. Final examinations.
- June 7. Academy Class Day.
- June 8. Music Recital.
- June 9, 4 p.m. Vesper Service and Baccalaureate Sermon.
- June 10, 8 p.m. Academy Graduation Exercises.
- June 11. Graduation Exercises, School of Music.
- June 12. Class Day.
- June 13, 10:30 a.m. Annual Commencement of the College.
- Sept. 9 and 10, 9 a. m. and 2 p. m. Examinations for admission and for removal of conditions. Registration of new students.
- Sept. 11, 10 a.m. First semester begins.
- Oct. 15. Last day for reporting subject for Senior thesis.
- Nov. 28. Thanksgiving Day. No college exercises.
- Dec. 13. Prize Declamation Contest of the Academy.
- 4 Dec. 20, 4 p.m. Christmas vacation begins.

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1908

- Jan. 7, 8 a.m. Christmas vacation ends.
Jan. 23. Day of Prayer for Colleges.
Jan. 27-30, 9 a.m. First Semester examinations.
and 2 p.m.
Jan. 30, 4 p.m. First Semester ends.
Feb. 3, 8 a.m. Second Semester begins.
Feb. 4. Examinations for removal of
conditions.
Feb. 14. Junior Night.
Mar. 26, 4 p.m. Spring vacation begins.
Apr. 8, 8 a.m. Spring vacation ends.
May 1. Last day for submitting Senior
thesis.
June 1-4, 9 a.m. Final examinations.
and 2 p.m.
June 5. Academy Class Day.
June 7, 4 p.m. Vesper Service and Baccalaure-
ate Sermon.
June 8, 8 p.m. Academy Graduation Exercises.
June 10. Class Day.
June 17, 10:30 Annual Commencement of the
a.m. College.

Occidental College

Occidental is a Christian College. Under Presbyterian control, enjoying broad interdenominational fellowship, it fosters self-respecting denominationalism without permitting a narrow sectarian spirit. It was founded April 20, 1887, by an association of ministers and elders representing Presbyterian churches in Los Angeles and vicinity. The fact that it is under the care and control of the Presbyterian church is a guarantee to its benefactors and patrons that false systems of thought will not be taught.

Founded upon the idea that a college of liberal arts has a mission distinct from a university, it does not make a specialty of providing advanced and professional work for graduate students. As a college it stands between school and university, giving its students a liberal education and fitting them for every walk in life. By moulding character and impressing high religious ideals it is proving that an education in a Christian college is not a toy but a tool for the farm, the workshop and the counting house as well as for professional life. Its watch-word is sound teaching, pure living and unswerving loyalty to God and His Word. Occidental College "is an institution where young men and women study great subjects under broad teachers in a liberty which is not license, and a leisure

which is not idleness—with unselfish participation in a common life, and intense devotion to minor groups within the larger body and special interests inside the general aim; conscious that they are critically watched by friendly eyes, too kind to take unfair advantage of their weakness and errors, yet too keen ever to be deceived.”

Occidental College by its charter is empowered “to receive and hold by purchase, gift, devise, bequest or grant, real or personal property and to sell, mortgage, lease or otherwise dispose of the same; to erect buildings, establish and maintain a college for educational purposes; to grant such literary honors as are usually granted by any college in the United States, and in testimony thereof to give suitable diplomas under their seal and the signatures of such officers of the college and the corporation as shall be deemed expedient.” Other provisions of the charter are: “that the Institution shall be open for the equal education of both sexes; that its Faculty and management shall be in accord with Evangelical Christianity.”

Connected with the College is an Academy whose standard of excellence is equal to that of the best academies and high schools elsewhere.

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Faculty and Instructors

Officers of Administration

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AMELIA V. FULKERSON,
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EDWARD S. MERRILL, A. B.,
Athletic Director for Men.

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in English.

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L. H. WESTCOTT,
Instructor in Mechanical Drawing.

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DWIGHT C. RICE,

Director: Instructor in Pianoforte Playing.

MRS. CATHERINE COLLETTE,

Instructor in Singing.

HERR OSCAR WERNER,

Instructor in Violin Playing.

ERSKINE H. MEAD,

Instructor in Theory and Organ Playing.

WILLIAM H. MEAD,

Instructor in Flute Playing.

JOSEPH LEE EDMISTON,

Instructor in Cornet Playing.

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President.

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Dean of the College.

ANNA PEARL COOPER, M. A.,
Dean of Women.

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Registrar.

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Principal of Academy.

CHARLES B. MOORE, A. B.,
Assistant Principal of the Academy.

ANNA C. LATIMER, A. B.,
Librarian.

G. S. TROWBRIDGE,
Business Manager.

REV. CYRUS B. HATCH, M. A.,
Field Secretary.

*Prof. E. E. Allen will act as Registrar for the College and Prof. Charles B. Moore for the Academy, after June 13, 1907.

Standing Committees of the Faculty

Admission and Classification—The Registrar, Dean Ward, Dean Cooper, Principal Barber, Professor McClelland, and Miss Moore.

Athletics—Professor Allen, Mr. Goheen, Miss Dickson, Professor Shaw, and Mr. Peterson.

Catalogue and Curriculum—Dean Ward, Professor Stevenson, Professor Gordon, Professor Archibald, Principal Barber, Professor Beals, Professor Bailey, and Miss Dole.

Christian Work—Professor Gordon, Professor Maxwell, Professor Archibald, Dean Cooper, Professor Shaw, Professor Cunningham, and Miss Thomson.

Grounds and Buildings—Professor Shaw, Principal Barber, Professor Wilson, Miss McPeak, and Miss Latimer.

Laboratories—Professor McClelland, Professor Shaw, Professor Beals, and Miss Dole.

Lectures—Professor Beals, Professor Beal, Principal Barber, Miss Dickson, and Dean Cooper.

Library—Professor Behnke, Miss Latimer, Professor Cunningham, Professor Maxwell, Dean Cooper, and Dean Ward.

Public Exercises—Professor Archibald, Miss Moore, Professor Rice, Professor Cunningham, Dean Cooper, and Miss Gordon.

Rules and Discipline—Dean Ward, Dean Cooper, Principal Barber, Professor Behnke, Professor Tripp, Professor Beals, and Professor Shaw.

Schedule—The Registrar, Professor Allen, Dean Ward, Principal Barber, and Professor Moore.

Social Life—Dean Cooper, Professor Wilson, Professor Moore, Professor Bailey, Miss Dickson, Miss Fulkerson, and Professor Allen.

EVENTS OF THE YEAR

Some of the events of academic interest during the current school year.

1906

- Oct. 19. Lecture: Robert. J. Burdette,
D. D.
- Oct. 26. Inauguration of President Baer.
Inaugural address: President
John Willis Baer, LL. D. Con-
gratulatory address, Robert E.
Speer, M. A., Secretary of the
Board of Foreign Missions of
the Presbyterian Church.
Greetings: William Shaw, In-
ternational Secretary of Chris-
tian Endeavor; Benjamin Ide
Wheeler, Ph. D., President of
the University of California;
David Starr Jordan, LL. D.,
President of Stanford Univer-
sity; E. C. Norton, Ph. D.,
Dean of Pomona College; Rev.
George F. Bovard, D. D.,
President of the University of
Southern California; Edward
C. Moore, Ph. D., Superintend-

- ent of Los Angeles City Schools; and others.
Banquet by the Presbyterian Laity Association in honor of President Baer.
- Dec. 5-6. Addresses on the Mormon Question, Rev. S. E. Wishard, D.D.
- Dec. 7. Lecture, Colonel Isaac W. Brown, Helen Gould Lecturer, Natural History.
- Dec. 14. College Night.
- Dec. 20. Annual Debate between Pomona and Occidental.
- Dec. 21. Address, Harry Holmes, Secretary of the Australian Young Mens' Christian Association.
- Dec. 22. Chapel talk, E. E. Chivers, D. D., New York City.
Address, "The Stainless Flag"; Rev. E. S. Chapman, D. D., Superintendent Southern California Anti-Saloon League.

1907

- Jan. 16. Address, Rev. F. M. Hadden, Christian Endeavor Evangelist.
- Jan. 24. Day of Prayer for Colleges.
Address, Rev. Malcolm J. McLeod, D.D., Pasadena, Cal.

EVENTS OF THE YEAR

- Feb. 6. Chapel talk, Miss Alice Giles, Missionary from India.
- Feb. 18. Chapel talk, Rev. M. Dean, Seattle, Wash.
- Feb. 20. Address, Mr. George, of the George Junior Republic, New York.
- Feb. 25. Lowell Evening.
- Feb. 27. Longfellow Centennial Address, Rev. Albert Hatcher Smith, First Baptist Church, Pasadena.
- March 1. Longfellow Evening.
- March 4. Home Prohibition Contest.
Cecil Rhodes Scholarship Examination passed by Harry B. Thomas.
- March 7. Address, Professor S. H. Clark, University of Chicago, "Service."
- March 16. Junior Night, "The Princess" presented by the class.
- March 22. Academy Oratorical Contest.
Chapel talk on the Eskimos, Dr. E. O. Campbell, St. Lawrence Island, Alaska.
- March 26. Chapel talks, Chas. S. Holt, Chicago, and John H. Converse,

President of the Baldwin Locomotive Works.

- April 12.** Greek night; "Modern Greece",
Mrs. Bennett, Pasadena;
Antigone Chorus.
- April 13.** Intercollegiate Oratorical Prohibition Contest.
- April 14.** First Chapel Vesper Service,
Address, Hugh K. Walker,
D. D., Los Angeles.
- April 16.** Address, Rev. E. J. Bulgin, D.D.
- April 19.** Home Oratorical Contest.

MATERIAL EQUIPMENT

Grounds

The campus consists of twenty-five acres located in the north-eastern part of Los Angeles, midway between the business center of that city and Pasadena. It is easy of access, being on the main boulevard which connects the two cities and served by two lines of electric cars. On the other hand it is quite suburban in its surroundings, hemmed in as it is by verdure-clad hills and rendered free by its altitude from the smoke and dust of the city. Health and beauty of situation are enhanced by the presence of a cultured Christian community in which the different churches vie with each other in providing every religious and social advantage. About half the campus is at present occupied by buildings, drives, lawns, grounds for athletic sports, etc., the remainder having been but recently purchased to provide room for intended expansion.

Buildings

The principal College building, the Hall of Letters, is a brick structure, erected at a cost of \$70,000. It has three stories and a basement, with a frontage of 180 feet and a depth of 100 feet. It is occupied by the rooms of the executive officials and by lecture rooms for all departments except Biology and Chemistry. It contains also the halls

of the Christian Associations and of the Literary Societies, and an auditorium furnished with opera chairs and having a seating capacity of five hundred. Actual use has proved it to be admirably adapted to the requirements of an up-to-date, progressive school.

The Academy Building is an attractive example of classical architecture, with a spacious study hall and numerous apartments for office and class room work. The basement is fitted up as a gymnasium in which the various forms of in-door physical training are carried on.

The Stimson Library, erected by Mr. C. M. Stimson of Los Angeles at a cost of \$20,000, is one of the most beautiful library buildings on the Pacific Coast. The lower floor is at present used by the department of Biology. The main floor contains reading and reference rooms, librarian's office, stack room, and the usual facilities for efficient work.

In addition to the three main buildings, there are two smaller buildings which have been set apart for the use of the chemical laboratories.

Library

The Stimson Library contains seven thousand volumes, including reference works in the different departments. Also the Public Library of Los Angeles has established a branch in this building which is of great value to the College and to the citizens of Highland Park. Through this arrangement a large list of well chosen special works is

placed at the disposal of the several departments and is accessible for consultation when needed in the progress of the various courses.

Laboratories and Apparatus

The Biological laboratories are amply equipped. Each student is provided with a compound microscope containing a one-quarter and a one-sixth objective and a one and a two-inch eye piece; also a private locker containing all necessary stains and dissecting instruments. The student is permitted to make use of the large compound microscope having all modern attachments for a one-twelfth emersion lens.

The laboratories contain one large and one small Bosch and Lomb slide microtome, one Spencer rotary microtome, an electric incubator, a large self-regulating paraffine bath, a complete series of stains and reagents and everything necessary for a thorough course in technique.

A fine manikin in a measure takes the place of the cadaver for an understanding of comparative and human anatomy.

An herbarium containing about 1000 Pacific Coast plants has been catalogued for immediate reference.

Largely through the kindness of Rev. J. C. Nevin, Ph. D., LL. D., the department is now in possession of a reference library costing over \$500.

The nearness of Occidental College to the mountains and the sea makes it an especially favorable

location for the study of a vast range of life conditions.

Mr. Gail Borden has loaned the department of Geology a rare and valuable collection of labeled minerals, valued at about \$4,000. This collection, accompanied by rocks and fossils, maps and models, greatly assists in acquiring a proper conception of the laws of dynamical and historical geology. The tertiary hills surrounding Highland Park present some excellent examples for field work in dynamical geology.

The chemical laboratories occupy, for the present, two small buildings on the edge of the campus. In one of these buildings the courses in general, qualitative, and quantitative chemistry are given; in the other, organic and assaying. The laboratories are provided with individual lockers, hoods, analytical balances, and all the equipment necessary for individual work on the part of the student. During the approaching summer, such added provision will be made for demonstration experiments as are needed to bring the course in chemistry to the highest pitch of practical efficiency.

The equipment in physics has been considerably increased during the past year, so that now there are several thousand dollars' worth of apparatus for laboratory and demonstration work. Next year important additions are to be made in rooms and apparatus, so that the institution will offer four years of physics and be satisfactorily equipped for doing the work.

The department of Mathematics is equipped with a reference library of 200 volumes, by the best authors, and covering every branch of mathematics. A ten-inch Newtonian reflecting telescope is already on the ground, and the expectation is that it will soon be mounted in a suitable observatory. The department also has two sextants, transit, Y level, leveling rod, polar planimeter, slide rule, Thatcher's calculating machine, Crelle's calculating tables, a high-grade protractor, parallel rulers, celestial globe, planetarium, and a number of less important instruments.

COLLEGE

Requirements for Admission

Admission to the Freshman Class

Candidates for admission to the Freshman Class must be sixteen years of age and must be provided with testimonials of good moral character. Applicants not presenting certificates from approved high schools or academies will be required to take examinations in all subjects for which they seek admission credit.

Applicants presenting certificates from approved high schools or academies will be given credit for the work certified. All credits are, however, subject to the test of the class room. Blanks for certificates will be furnished on application to the Registrar, and it is expected that all applicants for admission without examination will use them. To be admitted to full Freshman standing the candidate must present admission credits amounting to fifteen units of academy or high school work, the unit being understood to represent five recitations per week in one subject continued through one school year.

Conditioned Entrance

Candidates who are deficient in less than two units of the required fifteen may be admitted as conditioned Freshmen; but all entrance conditions

must be removed before any student can be ranked as a Junior.

Advanced Standing

Students from other institutions of recognized collegiate rank will be admitted to such standing as seems fair in the judgment of the Faculty. The application must be accompanied by a letter of honorable dismissal, a catalogue of the institution granting it, an official statement of subjects completed, with the number of terms and the number of hours per week devoted to each subject, and a similar statement of entrance credits.

Special Students

No student is permitted to register for less than twelve units of work in any semester, except by a special vote of the Faculty. Subject to this restriction, students who are not candidates for a degree may be admitted to such classes as they are prepared to enter. Except persons of age and maturity, no one will be admitted as a special student who is unable to pass the tests for conditioned entrance to the Freshman Class. Special students are under the same regulations as the others. They may become candidates for a degree at any time by meeting the usual admission requirements. On withdrawing from the institution special students will be granted certificates showing the work completed.

Admission Subjects

A few subjects which may be accepted under certain conditions are not named below. They are

of so variable a standard or so rarely presented that it is thought best not to include them in the published list. They will be considered on their merits when presented. A detailed description of the subjects here named will be found on the following pages.

1. English, Elementary.....2 units
2. English, Advanced 1 unit
3. English, Advanced 1 unit
4. Algebra, Elementary 1½ units
5. Algebra, Advanced ½ unit
6. Plane Geometry 1 unit
7. Solid Geometry ½ unit
8. Plane Trigonometry ½ unit
9. Ancient History 1 unit
10. Mediaeval and Modern History.....1 unit
11. English History 1 unit
12. History and Government of U. S....1 unit
13. Latin, Elementary 2 units
14. Cicero and Latin Composition 1 unit
15. Vergil and Latin Composition.....1 unit
16. Greek, Elementary 2 units
17. Homer and Greek Composition.....1 unit
18. German, Elementary 2 units
19. German, Intermediate 1 unit
20. German, Advanced 1 unit
21. French, Elementary 2 units
22. French, Intermediate 1 unit
23. French, Advanced 1 unit
24. Spanish 2 units
25. Physics 1 unit
26. Chemistry 1 unit
27. Botany 1 unit
28. Zoology 1 unit
29. Physiology 1 unit
30. Physical Geography 1 unit

Groups of Admission Subjects

Any one of the following groups will satisfy the requirements for admission to the Freshman class:

- A.—1, 4, 6, 12, 13, 14, 15, 16, 25; elective $2\frac{1}{2}$ units
15
- B.—1, 4, 6, 12, 13, 18 or 21 or both 14 and 15, 25;
 elective $4\frac{1}{2}$ units 15
- C.—1, 4, 6, 7, 12, 13, 18 or 21, 25, 26; elective 3
 units 15

A student admitted on any of these groups may become a candidate either for the degree of A. B. or for the degree of B. L. Group A is to be preferred, however, for those seeking the degree of A. B. Group C must be presented by those seeking the degree of B. S. By including 7 and 26, any of the three groups will admit to the Pre-Medical course.

Description of Admission Subjects

1. English, Elementary. (2 units).

(a) A practical knowledge of grammar, and of the elements of rhetoric, and the ability to write correct English.

(b) Literature for careful reading:

1907-11. Group I (two to be selected): Shakespeare's *As You Like It*, *Henry V*, *Julius Caesar*, *The Merchant of Venice*, *Twelfth Night*.

Group II (two to be selected): Bacon's *Essays*; Bunyan's *Pilgrim's Progress*, Part I; *The Sir Roger de Coverley Papers in the Spectator*; Franklin's *Autobiography*.

Group III (one to be selected): Chaucer's *Pro-*

logue; Spenser's *Faerie Queene* (selections); Pope's *Rape of the Lock*; Goldsmith's *Deserted Village*; Palgrave's *Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (two to be selected): Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens' *Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V (two to be selected): Irving's *Sketch Book*; Lamb's *Essays of Elia*; DeQuincey's *Joan of Arc and the English Mail Coach*; Carlyle's *Heroes and Hero Worship*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

Group VI (two to be selected): Coleridge's *Ancient Mariner*; Scott's *Lady of the Lake*; Byron's *Mazeppa and the Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Launcelot and Elaine*, and *The Passing of Arthur*; Browning's *Poems* (selected).

The work in literature in this and the following subject is based upon the Uniform Entrance Requirements in English. Books substituted must be equivalent in literary merit and similar in type to those omitted.

2. **English, Advanced.** (1 unit) Literature for detailed study:

1907-11. Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Pensero*; Burke's *Speech on Conciliation with America*, or *Washington's Farewell Address* and *Webster's First Bunker Hill Oration*; *Macaulay's Life of Johnson*, or *Carlyle's Essay on Burns*.

3. **English, Advanced.** (1 unit) Advanced composition, including training in the various forms of discourse: description, narrative, exposition, and argumentation.

4. **Algebra, Elementary.** ($1\frac{1}{2}$ units) The fundamental laws, laws of exponents, formulas of multiplication, binomial theorem with positive integral exponent, factoring, common divisors and multiples, radicals, simultaneous equations of the first degree, quadratic equations, theory of quadratic equations, the elementary presentation of roots, powers, series and logarithms.

5. **Algebra, Advanced.** ($\frac{1}{2}$ unit) Simultaneous quadratic equations and equations essentially quadratic; fractional exponents, fractional and irrational equations; roots and powers of polynomials; series; binomial theorem; logarithms; and the elements of the theory of equations.

6. **Plane Geometry.** (1 unit) The general properties of plane figures, the circle and the measure of angles, areas, regular polygons, and the measure of the circle; the usual demonstrated theorems and original propositions.

7. **Solid Geometry.** ($\frac{1}{2}$ unit) Relations of lines and planes to space; the properties of prisms, pyramids, cylinders, and cones; the sphere and spherical triangle; original propositions.

8. **Plane Trigonometry.** ($\frac{1}{2}$ unit) The development of the general formulae of elementary plane trigonometry; the theory and use of logarithms; the numerical solution of plane triangles and of trigonometrical problems in heights and distances.

9. **Ancient History.** (1 unit) A year's work in the history of the Eastern Nations, Greece, and Rome, to the establishment of Charlemagne's empire. In Grecian history special attention should be given to the period from the fifth to the second century B. C., and in Roman history to the period from the conquest of Italy to the establishment of Christianity. Outlines, maps, and papers on special topics should be prepared, and should be presented at the time of the examination.

10. **Mediaeval and Modern History.** (1 unit) A year's work in European history from Charlemagne's time to the present. Special attention should be given to mediaeval institutions, the struggle between the empire and the Papacy, the Reformation, and the French Revolution. About one fifth of the work should be put upon the nineteenth century. Outlines, maps, and papers upon special topics should be prepared, to be presented at the time of the examination.

11. **English History.** (1 unit) A year's work in the history and government of England. Maps,

outlines, and special reports should be presented at the time of the examination.

12. History and Government of the United States. (1 unit) A year's study beyond the grammar school, with considerable work in outlines, papers, notes, and reports, to be presented at the time of the examination. The candidate for admission should have a good working knowledge of the constitution of the United States, and should be familiar with the works of reference on American history found in good high school libraries.

13. Latin, Elementary. (2 units) Two years of daily exercises are necessary to complete this requirement. The first object to be sought is correct pronunciation, following which, and still more important, is an accurate knowledge of forms. The failure to attain this is responsible for most of the failure and drudgery of the Latin course. Four books of Caesar must be read in class, accompanied by persistent drill in constructions and frequent translation from English into Latin of sentences based on the text. Occasional practice in sight reading is assumed. One result of this course should be a vocabulary, thoroughly learned, of twelve to fifteen hundred words. The substitution of other authors for a portion of the Caesar is admissible.

14. Cicero and Latin Composition. (1 unit) Six orations of Cicero are required, including the four against Catiline and the one in support of the Manilian Law. Work in constructions should be unre-

mitting. The work in composition should be somewhat more advanced, involving greater attention to the orderly arrangement of the sentence and the joining of sentences into connected paragraphs. Sight reading, in the same author, should be given an increasingly important place, not merely for added facility in translation but for the purpose of discovering and correcting faulty habits of preparation. Time required, one year.

15. Vergil and Latin Composition. (1 unit) This subject calls for the reading and interpretation of the first six books of Vergil's *Aeneid*, together with daily or weekly exercises in prose composition based on the authors previously read. After three years devoted to the acquisition of the language, the study of Vergil should be approached with a literary rather than a purely linguistic purpose in view. To spend the fourth year labeling ablatives or classifying conditional sentences is to miss a rare opportunity for appropriating the best work of a great poet. The passages chosen for sight translation may be from the same author or from Ovid. Ability to read the hexameter metrically at sight is expected of students who have completed this course.

16. Greek, Elementary. (2 units) The requirement includes a knowledge of prose forms and prose syntax, a good Xenophon vocabulary, and some knowledge of English derivatives. Forms and syntax are usually sufficiently drilled upon, but generally not enough attention is given to vocabulary and English derivatives. White's First Book,

Xenophon's *Anabasis* I-IV, and Pearson's *Composition*, Parts I-II, represent the work to be covered.

17. Homer and Greek Composition. (1 unit) Homer's *Iliad* I-III and Pearson's *Prose Composition* are the minimum of preparation. In Homer, a knowledge of Homeric grammar and the prose equivalents of common poetical words, where there are such, and the ability to read Homer not only metrically but with expression, are essential. Some attention should also be given to character study and to Homeric life. In composition, the ability to do easy prose based on Xenophon is required.

18. German, Elementary. (2 units) This requirement covers two years of high school German. A thorough knowledge of the elements of German grammar is expected and the ability to translate ordinary German into English at sight or English into German. A fair knowledge of poetry and evidence of solid composition work is also required.

19. German, Intermediate. (1 unit) The ability to read at sight ordinary German prose or poetry, to translate easy English into German, to answer simple questions in German, and to give evidence of familiarity with the essentials of German grammar including particularly the rules concerning the declension of adjectives and nouns, the conjugation of verbs and word order. Amount of reading required, about 400 pages.

20. German, Advanced. (1 unit) German prose reading of the more difficult selections from

standard authors. Poems memorized, composition work which leaves no doubt as to the thorough grammatical drill of the applicant. The candidate must be able to write in German, short, original themes upon assigned topics. Not less than 700 pages of good modern literature required.

21. French, Elementary. (2 units) The essentials of grammar, including the regular and the most common irregular verbs, forms and positions of pronouns. The reading of at least 250 pages of modern prose. Easy composition and dictation. Conversation on the text read. Particular stress should be laid on correct pronunciation.

22. French, Intermediate. (1 unit) Review of the essentials of grammar. Study of irregular verbs and the study of advanced grammar. Composition, written and oral. Reading of about 400 pages of prose by standard modern authors and one or two modern plays. Written analyses and criticisms on text read and conversation on the same. Sight reading and translation. Special attention should be paid to the correct use of idioms.

23. French, Advanced. (1 unit) The reading of about 800 pages of classical and modern French works by standard authors. The writing of numerous short themes either on topics of every day life or on the text read. Frequent discussions on the texts read and advanced composition. The work to be conducted in French.

24. Spanish (2 units) Thorough work in grammar, with especial attention to verb drill, includ-

ing the subjunctive. Sight reading, and translation of about five hundred pages, including some poetry. Easy Spanish composition and original short themes.

25. **Physics.** (1 unit) The requirement represents at least one daily exercise throughout the year (preferably the last) in academy or high school, and includes elementary mechanics, heat, sound, light, electricity and magnetism. There should be close relation between class work, lecture demonstration work, and laboratory work. Emphasis should be placed on principles, application of principles to daily life, and ability to solve problems and to think. The class work should include the study of some standard, up-to-date text; such, for example, as Millikan and Gale's First Course in Physics. In the laboratory the student should individually perform with some accuracy at least thirty-five typical experiments, and should present at entrance a well written note book, properly indexed, duly signed by the teacher. To have passed Physics may or may not be sufficient; the student must have passed with credit in some "accredited" school or show evidence to the head of the Physics department of having done work of high grade which is recognized as fully equivalent to the rank of "recommended."

26. **Chemistry.** (1 unit) The completion of an elementary course in general chemistry is required, with practical work in the laboratory. The work is represented by that given in Newell's Descriptive Chemistry and Laboratory Manual. Note-

books, satisfactory to the head of the department, are also a part of the requirement.

27. Botany. (1 unit) Applicants for credit in this subject must show ability, obtained during a full year's work of at least eight hours per week, to solve problems in the field and laboratory. It is not deemed sufficient to simply know terms. The applicant must be able to give intelligent explanations for local conditions. A well kept note book signed by the instructor must accompany the application. The pupil must have a general knowledge of plant morphology and physiology and also be able to recognize readily the common orders of flowering plants. The following texts or their equivalents suggest the scope of the work required: Osterhout's Experiments, Bergen's Elements of Botany.

28. Zoology. (1 unit) The prerequisites for credit in this subject correspond in time and method to those called for in Botany. Any one of the following tests suggests the scope of the work: Kingsley's Comparative Zoology, Merrill's Studies in Zoology, or Davenport's Introduction to Zoology.

29. Physiology. (1 unit) Credit will not be given for elementary physiology and hygiene done in the grammar grades. The work must at least have covered the equivalent of Martin's Human Body. Four hours per week must have been spent in a well organized laboratory. Candidates must present note books signed by an instructor.

30. **Physical Geography.** (1 unit) This course requires for one year a minimum of seven periods per week, of which four shall be arranged as double laboratory periods. The subject as presented in a text book should be supplemented by laboratory work, including experiments and map study. Records of this work should be kept in a note book, which should be presented as a part of the entrance requirement. The work should include the commonly accepted divisions of the subject, viz.: mathematical geography, the atmosphere, the ocean, and land forms.

Requirements for Graduation

No student is permitted to graduate who has not spent at least one year in resident study at the college.

The unit employed in reckoning college credits is one recitation per week in one subject continued through a semester. One hundred and twenty-eight of these units are required for graduation, sixty-eight to be completed normally in the Freshman and Sophomore years, and sixty in the Junior and Senior.

A thesis representing the work of some department in which the candidate has completed advanced courses amounting to not less than six units is required of every one before graduation. The Dean must be notified in writing of the department chosen not later than October 15th of the candidate's Senior year. The subject of the thesis and the thesis itself must be approved by the head of the department, and the thesis must be in his hands by May 1st.

COURSES OF STUDY

The courses of study have been arranged with three objects in view:

1. General culture.
2. Special training along chosen lines.
3. Free election, on the part of the student, of a

limited number of subjects adapted to his individual tastes and purposes.

To meet the requirement of general culture, certain subjects are prescribed in all courses leading to a degree, viz:

Bible	8 units
Rhetoric and Composition	6 units
English Literature	6 units
French or German	10 units
History	6 units
Mathematics	6 units
Chemistry or Biology or Physics, 6 units	
Logic	3 units
Psychology	3 units
Ethics	3 units
Vocal Expression	2 units
Public Speaking	2 units
Physical Training	4 units

NOTE.—Candidates for the degree of B. L. or B. S. not offering admission credit in either French or German must take 10 units in each of these languages after entering college. Candidates for the degree of A. B. offering an admission credit of three years in Greek will substitute 6 units of Latin and 5 of Greek for the second modern language; those offering an admission credit of only two years in Greek will substitute 6 units of Latin and 10 of Greek for the second modern language.

To meet the requirement of special training, every student is expected to choose two departments in which to pursue more advanced courses. Certain prerequisite courses, definitely specified in each instance and extending ordinarily through the Freshman and Sophomore years, must first be completed; after which, advanced courses amounting to 18 units in the two departments chosen (6 being the minimum in either) must be completed before graduation. Following is a list of the dual groups from which the choice may be made, to-

gether with the prerequisites for advanced courses in each department reckoned in units:

- I. Latin (12) and Greek (11 or 16.)
- II. French (6 or 16) and German (6 or 16.)
- III. English (12) and Latin (12.)
- IV. English (12) and Greek (11 or 16.)
- V. English (12) and French (6 or 16.)
- VI. English (12) and German (6 or 16.)
- VII. English (12) and History (12.)
- VIII. History (12) and Economics (6.)
- IX. Mathematics (12) and Physics (14.)
- X. Chemistry (15) and Biology (10.)
- XI. Chemistry (15) and Physics (14.)

NOTE.—In French or German, where an admission credit of two years is offered the prerequisite for advanced courses is 6 units; where no admission credit is offered the prerequisite is 16 units. In Greek, where an admission credit of three years is offered the prerequisite for advanced courses is 11 units; where an admission credit of only two years is offered the prerequisite is 16 units.

To meet the requirement of free election, every student is permitted to select a number of subjects, varying somewhat in amount according to the group chosen, and subject only to the necessary sequence of courses within the several departments.

Each of the groups named above, provided all other requirements for graduation be fulfilled, leads to one of three degrees, viz:

Group I, Bachelor of Arts.

Groups II-VIII, Bachelor of Letters.

Groups IX-XI, Bachelor of Science.

But a student who completes any one of the eleven groups may receive the degree of Bachelor of Arts, provided his credits include Latin 1 and 2, and Greek 1 and 2 (see under Departments of Instruction.)

Synopsis of Groups

Note — The subjects characteristic of each group appear in capitals at the head of the column. The figures show the number of units required in each subject. The student in Group I or Group IV may enter with two years of Greek, with three years, or with none; this table assumes that he enters with two. The student in any other group than Group I may enter with two years of German and none of French, with two years of French and none of German, or with no preparation in either; this table assumes that he enters with two years of German and none of French. Candidates for the degree of A. B. who enter with two years' credit in French or German may graduate without additional work in the modern languages.

Group I.

Freshman and Sophomore

LATIN	12
GREEK	16
Bible	4
Rhetoric and Comp....	6
English Literature	6
French or German	10
Mathematics	6
Physics ..	} one.....6
Chemistry ..	
Botany ...	
Zoology ..	
Vocal Expression	2
Physical Training	4

Junior and Senior.

LATIN . }	}	18
GREEK }		
Bible		4
History		6
Logic		3
Psychology		3
Ethics		3
Public Speaking		2
Elective		17

Group II.

Group III.

Freshman and Sophomore.

FRENCH	16	ENGLISH	12
GERMAN	6	LATIN	12
Bible	4	Bible	4
Rhetoric and Comp...	6	French ...	10
English Literature	6		
Mathematics	6	Mathematics	6
Physics ..	} one.....6	Physics ..	} one.....6
Chemistry		Chemistry	
Botany ...		Botany ...	
Zoology ..		Zoology ..	
Vocal Expression	2	Vocal Expression	2
Physical Training	4	Physical Training	4

Junior and Senior.

FRENCH ..	} 18	ENGLISH .	} 18
GERMAN .		LATIN	
Bible	4	Bible	4
History	6	History	6
Logic	3	Logic	3
Psychology	3	Psychology ..	3
Ethics	3	Ethics	3
Public Speaking	2	Public Speaking	2

Elective	33	Elective	33
128		128	

Group IV.

Group V.

Freshman and Sophomore.

ENGLISH	12	ENGLISH	12
GREEK	16	FRENCH	16
Bible	4	Bible	4
French	10		
Mathematics	6	Mathematics	6
Physics ..	} one.....6	Physics ..	} one.....6
Chemistry		Chemistry	
Botany ...		Botany ...	
Zoology ..		Zoology ..	
Vocal Expression	2	Vocal Expression	2
Physical Training	4	Physical Training	4

Junior and Senior.

ENGLISH .}	} 18	ENGLISH .}	} 18
GREEK ... }		FRENCH . }	
Bible	4	Bible	4
History	6	History	6
Logic	3	Logic	3
Psychology	3	Psychology	3
Ethics	3	Ethics	3
Public Speaking	2	Public Speaking	2
Elective	29	Elective	39
	128		128

Group VI.

Group VII.

Freshman and Sophomore.

ENGLISH	12	ENGLISH	12
GERMAN	6	HISTORY	12
Bible	4	Bible	4
History	6	Economics	6
French	10	French ...	10
Mathematics	6	Mathematics	6
Physics ..	} one.....6	Physics ...	} one.....6
Chemistry		Chemistry	
Botany ..		Botany ...	
Zoology ..		Zoology ..	
Vocal Expression	2	Vocal Expression	2
Physical Training	4	Physical Training	4

Junior and Senior.

ENGLISH }	} 18	ENGLISH }	} 18
GERMAN }		HISTORY }	
Bible	4	Bible	4
Logic	3	Logic	3
Psychology	3	Psychology	3
Ethics	3	Ethics	3
Public Speaking	2	Public Speaking	2
Elective	39	Elective	33
128		128	

Group VIII.

Group IX.

Freshman and Sophomore.

HISTORY	12	MATHEMATICS ...	12
ECONOMICS	6	PHYSICS	14
Bible	4	Bible	4
Rhetoric and Comp....	6	Rhetoric and Comp....	6
English Literature	6	English Literature	6
French	10	French	10
Mathematics	6		
Physics ..	} one.....6	Chemistry	6
Chemistry ..		Zoology ..	} one.....6
Botany ...		Botany ..	
Zoology ..		Vocal Expression	2
Vocal Expression	2	Physical Training	4
Physical Training	4		

Junior and Senior.

HISTORY ... }	} 18	MATHEMATICS	12
ECONOMICS }		PHYSICS	6
Bible	4	Bible	4
		History	6
Logic	3	Logic	3
Psychology	3	Psychology	3
Ethics	3	Ethics	3
Public Speaking	2	Public Speaking	2
Elective	33	Elective	19
	128		128

Group X.

Group XI.

Freshman and Sophomore.

CHEMISTRY	15	CHEMISTRY	15
BIOLOGY	10	PHYSICS	14
Bible	4	Bible	4
Rhetoric and Comp....	6	Rhetoric and Comp....	6
English Literature	6		
French	10	French	10
Mathematics	6	Mathematics	12
Physics	6		
Vocal Expression	2	Vocal Expression	2
Physical Training	4	Physical Training	4

Junior and Senior.

CHEMISTRY }		CHEMISTRY	12
BIOLOGY ... }	18	PHYSICS	6
Bible	4	Bible	4
		English Literature	6
History	6	History	6
Logic	3	Logic	3
Psychology	3	Psychology	3
Ethics	3	Ethics	3
Public Speaking	2	Public Speaking	2
Elective	20	Elective	16

Pre-Medical Course

The subjects named below include all the requirements for admission to the College of Medicine of the University of California. They may be taken as a part of the four-years course for graduation or as a separate course. When taken separately, two years are sufficient for the completion of the course, provided admission subject 18 or admission subject 21 be offered at matriculation. Otherwise a longer time is necessary. The requirements for admission to the Pre-Medical course will be found on page 32. Candidates for the medical profession are strongly advised to complete the full academic course before entering the professional school, but for those who find it necessary to shorten their preparation the course here outlined will meet the requirements. The figures after each subject designate courses numbered to correspond under Departments of Instruction.

Bible 1 and 2.....	4 units
English 1	4 units
French 1	10 units
German 1	10 units
Mathematics 1 and 2	6 units
Physics 1, 2, and 3	12 units
Chemistry 1, 2, 3, 4, and 5..	15 units
Zoology 1, 2, 3, 4, and 5 or 6.	18 units
Physical Training	4 units

Total number of units..83

DEPARTMENTS

OF

INSTRUCTION

Departments of Instruction

[Except where otherwise stated, the number of units for which credit will be given on the completion of any course is the same as the number of hours for which the course is scheduled.]

BIBLICAL LITERATURE

Professor Maxwell.

1. The Life of Christ.

The life of our Lord is approached from the point of view of those who were eye-witnesses of his ministry and its closing events. The method is historical and interpretative. The aim is to help the student to obtain a clear and intelligent conception of Jesus as he is inimitably portrayed in the Gospels. Intended primarily for Freshmen but open to all.

2 hours, first semester.

2. The Pauline Epistles.

Four or five of the principal epistles of Paul are studied. The date, occasion, and purpose of writing are discussed. Doctrinal questions are examined; but the principal purpose of the study is to obtain a comprehensive and detailed knowledge of the contents.

Prerequisite, course 1.

2 hours, second semester.

3. The Pre-exilic Prophets.

Several prophetic books of this period are taken up in detail in their chronological sequence. Particular attention is paid to the historic setting of these prophecies, their living relation to the life of those to whom they were addressed, their literary form, the elements of moral and spiritual truth which they convey, the Messianic predictions they may contain.

Prerequisite, course 2.

2 hours, second semester.

4. Apologetics.

The subject embraces a study of the principal arguments for the existence of God; a discussion of the principal anti-theistic theories and of the credibility of miracles; and the arguments for Christianity from prophecy and from the character of the Christian system.

Prerequisite, 6 units in Biblical Literature.

2 hours, first semester.

Elective Courses

The aim of these courses is to widen the scope and to intensify interest in the study of God's Word, and to be a means of inciting to higher intellectual and spiritual development and a preparation for increased Christian influence. In particular their purpose is to be of help to those training especially for Christian work. To have knowledge of the great events and principal current ideas of the time and country in which our Lord lived; and of the thought and growth of the primitive church;

and of the ethnic religions of the present time; and of the Master's methods of winning souls, is essential to a thorough study of the Bible and of inestimable value to the Christian worker.

The common prerequisite to all is courses 1 and 2.

5. The New Testament Times.

The political, literary, social, and religious development of the Jews from 175 B. C. to 70 A. D. is investigated. This is followed by a study of the literature of that period. Knowledge of the ideas, traditions, and prejudices of his time is of vital importance to a complete understanding of the teaching of Jesus.

2 hours, first semester.

6. Apostolic History.

This is a study of the external and internal growth of the Christian church in the first century, as this is reflected in the Acts of the Apostles and the Epistles.

2 hours, second semester.

7. Comparative Religion.

Mohammedanism, Hindooism, Buddhism, Shintoism, and Confucianism are studied. The doctrinal teachings of these religions are summarized and their relations to Christianity set forth.

2 hours, first semester.

8. Dealing With Inquirers.

Christ's methods of winning individuals are

studied historically. In connection with each recitation selected portions of Scripture are studied and memorized.

2 hours, second semester.

PHILOSOPHY

Professor Gordon.

1. **Psychology.**

A study of the powers, activities, laws, and development of the human mind. The course will consist of an analytic study of the phenomena of consciousness, and of the nervous system as related to sensation, perception, and volition, and introductory studies in experimental and genetic psychology. Attention is directed to the use that may be made of the knowledge gained in this science in improving the mind, communicating thought, and exercising influence. McCosh's Cognitive and Motive Powers. Angell's Psychology. Titchener's Manual. Junior required course.

3 hours, first semester.

2. **Logic.**

Principles of scientific method; the laws of inference; sources of fallacy in reasoning; application of logical principles in the study of the sciences and the arts, and in exposition and argumentation. Creighton's Introductory Logic. Hibben's Deductive and Inductive Logic. Junior required course. Lectures.

3 hours, second semester.

3. Ethics.

Philosophy of the moral life; Christian ideal of character and conduct. The course includes a study of the principal types of ethical theory, the relation of religion and morals, man as a moral agent, elements of virtue, ground of obligation, the duties required by the moral law—personal, social, civil, theistic. Paulsen's *Ethics*. Lectures. Senior required course.

3 hours, first semester.

4. History of Philosophy.

A study of the leading systems of philosophic thought—origin, development, principles, influence—with especial regard to those that are powerfully influencing thought and life at the present time. The course will be a valuable aid in gaining an understanding of many of the great political, literary and religious movements of history. Roger's *Student's History of Philosophy*. Collateral reading. Senior elective.

3 hours, second semester.

5. Theory of Knowledge and Belief; First Truths.

The aim in this course will be to exhibit the fact, validity, and extent of our knowledge, and the fundamental truths which are the basis of all science and philosophy. It will include a critical examination of agnosticism and of the phenomenal and relative theories of knowledge. Ormond's *Foundations of Knowledge*. McCosh's *First and Fundamental*

Truths. Reference, Flint's Agnosticism. Senior elective.

3 hours, first semester.

6. Christian View of the World.

Exposition and defense of the Christian doctrine concerning God and his relation to the world, man, sin and suffering, the person and work of Christ, with a statement of the reasons for not accepting current anti-Christian views regarding the subjects included in the course. Orr's Christian View of God and the World. References, Flint's Theism and Anti-Theistic Theories. Senior elective.

3 hours, second semester.

EDUCATION

Professor Gordon.

1. History of Education, Earlier Period.

The Biblical idea of education. Educational theory and practice in Greece and Rome, and in the leading nations of Europe during the Middle Ages. Lectures. Painter's History of Education. Laurie's Historical Survey of Pre-Christian Education. To alternate with course 2. Open to Juniors and Seniors.

3 hours, first semester.

2. History of Education, Later Period.

Educational theory and practice in the more advanced nations of modern times. Lectures. Painter's History of Education. Quick's Educational Reformers. Supplementary reading.

To alternate with course 1. Open to Juniors and Seniors.

3 hours, first semester.

3. **Pedagogy.**

Application of ethical principles, and of the sciences of logic, rhetoric, psychology, and physiology to education. The aim will be to give a comprehensive view of the educational process, and to acquaint the student with the best ways and means of promoting physical health and vigor, and of cultivating the senses, intellect, feelings, will, and conscience, and the most approved methods of teaching the subjects usually studied in secondary schools. Lectures. Compayre's Lectures on Pedagogy. White's Elements of Pedagogy. Supplementary reading. To alternate with course 4. Open to Juniors and Seniors.

3 hours, second semester.

4. **Philosophy of Education.**

The course will include a study of the aim, the meaning, and the individual and social aspects of education, educational values, the curriculum, correlation of studies, interest, attention, the art of study, qualifications of teachers, method of the recitation, laws of teaching. Lectures. Horne's Philosophy of Education. McMurray's General Method and Method of the Recitation. Supplementary reading. To alternate with course 3. Open to Juniors and Seniors.

3 hours, second semester.

ENGLISH

Professor Cooper.

Assisted by Professor Cunningham.

1. English Composition.

Narration, description, and exposition. Required in all courses; Freshman year.

2 hours, through the year (4 units.)

Professor Cooper.

2. Exposition and Argument.

An advanced course in composition. Required in all courses; Sophomore year.

Prerequisite, course 1.

2 hours, first semester.

Professor Cooper.

3. Outline History of English Literature.

The aim of the course is to give a broad foundation for more critical and detailed study. Required in all courses; Sophomore year. [Owing to adjustments made necessary by the change of curriculum, courses 21 and 22 will take the place of this course for 1907-8.]

3 hours, through the year (6 units.)

Professor Cooper.

4. American Literature.

A study of the works of the chief poets and prose writers. Open to Sophomores; to others by permission. Not offered in 1907-8.

3 hours, first semester.

Professor Cooper.

5. Victorian Essayists.

Carlyle, Ruskin, and Arnold. Open to Sophomores; to others by permission. Not offered in 1907-8.

3 hours, second semester.

Professor Cooper.

21. Development of the English Drama.

This course will trace the history of the English drama from its beginnings in the ceremonials of the Mediaeval Church to the present time. The work will follow the outlines of a text book, but will consist principally of a careful study of the plays themselves. Required of Sophomores in 1907-8.

3 hours, first semester.

Professor Cunningham.

22. Poets and Problems.

A study of nineteenth century thought as expressed by three of its greatest writers, Browning, Tennyson, Ruskin. The aim of this work is to know each writer at his best, and through a sympathetic appreciation be able to pass on his message. Required of Sophomores in 1907-8.

3 hours, second semester.

Professor Cunningham.

Advanced Courses

Courses 1, 2, and 3 are prerequisite to the following courses.

6. Poets of the Nineteenth Century.

(a) Wadsworth, Coleridge, Byron, Shelley, Keats. Alternate with (b.)

(b) Tennyson and Browning. Omitted in 1907-8.

3 hours, first semester.

Professor Cooper.

7. Modern English Prose.

(a) Dryden to Johnson. Alternate with (b.)
Omitted in 1907-8.

(b) Lamb to Macaulay.

3 hours, second semester.

Professor Cooper.

8. Shakespeare.

The principal plays read chronologically.

3 hours, first semester.

Professor Cooper.

9. English Novelists of the Nineteenth Century.

Jane Austen, Scott, Dickens, Thackeray, George Eliot. [Omitted in 1907-8, due to change of position of course.]

3 hours, first semester.

Professor Cooper.

10. Thesis.

In connection with any of the advanced courses the student may, with the permission of the instructor, write a thesis embodying some piece of research.

1 unit, either semester.

Professor Cooper.

ORATORY

Professor Dickson.

1. Vocal Expression.

Fundamental principles of expression, pronunciation, articulation, voice building, and the elements of interpretative reading. Required in all courses; Freshman year.

2 hours, second semester.

2. Public Speaking.

Practice in the preparation and delivery of speeches. Extemporaneous work. Debate. Required in all courses. Junior year.

2 hours, first semester.

3. Masterpieces in Oratory.

Sears' History of Oratory, Modern Eloquence. Preparation and delivery of one original oration. Open to Juniors and Seniors.

3 hours, first semester.

4. Vocal Interpretation of

(a) Tennyson, Browning, Burns, Dickens, Scott, Eliot, and others, or

(b) Shakespeare.

Open to Juniors and Seniors.

3 hours, second semester.

LATIN

Professor Ward.

A. Cicero and Vergil.

Six orations of Cicero. Six books of the Aeneid.

Prose composition. A preliminary course for those not prepared to do the regular Freshman work. This course is identical with admission subjects 14 and 15.

Prerequisite, admission subject 13.

5 hours, through the year (10 units.)

1. **Livy.**

The larger portion of books XXI and XXII is read, with particular attention to the syntax and Livy's qualities as a writer and historian. Collateral reading on the history of the period.

Prerequisite, admission subjects 14 and 15 or course A.

3 hours, first semester.

2. **Horace and Cicero.**

Horace: Odes and Epodes. Cicero: De Amicitia or De Senectute. Lyric meters. Political conditions at the beginning of the empire.

Prerequisite, course 1.

3 hours, second semester.

3. **Plautus and Terence.**

Plautus: Captivi and Trinummus. Terence: Phormio. Meters, early forms and constructions, Roman and Greek life.

Prerequisite, course 2.

3 hours, first semester.

4. **Tacitus and Pliny.**

Tacitus: Agricola and Germania. Pliny the younger: selected letters. Investigation of

literary and political conditions under the empire.

Prerequisite, course 3.

3 hours, second semester.

5. Prose Composition I.

For those preparing to teach Latin in the high schools of California, this and the following course are essential.

Prerequisite, admission subjects 14 and 15 or course A.

2 hours, first semester.

6. Prose Composition II.

Prerequisite, course 5.

2 hours, second semester.

Advanced Courses

Course 4 is the common prerequisite for all advanced courses in this department. Two of these are offered each year, besides course 13; 8 and 11 will be given in 1907-8. An additional prerequisite to course 13 is course 6.

7. Horace and Juvenal.

Horace: Satires and Epistles. Juvenal: selected Satires.

3 hours, first semester.

8. Tacitus.

Selections from the Annals. Collateral studies in the history of the empire.

3 hours, second semester.

9. Lucretius.

De Rerum Natura: books I, III, and V, with extended sight reading in the other three books. The Epicurean system and its poetic treatment at the hands of Lucretius.

3 hours, first semester.

10. Seneca.

Moral essays, accompanied by a close examination of Stoicism as a creed and of its influence upon Roman life.

3 hours, second semester.

11. Catullus, Tibullus, and Propertius.

Selections. Rise of Alexandrinism. Roman morals. Literary coteries of the times.

3 hours, first semester.

12. Roman Comedy.

Plautus: Rudens and Mostellaria. Terence: Andria and Adelphi. Lectures on the Roman Drama.

3 hours, second semester.

13. Prose Composition III.

2 hours, either semester.

GREEK

Professor Archibald.

In this department provision is made for those who enter without Greek, with two years, or with three. These three classes may absolve the Greek requirement for A. B. in two years, one year, and one half year respectively. It is thus possible for

a student entering without Greek to obtain the degree of A. B. in any but the Science and French-German groups, and for those entering with Greek it is possible in these groups also. Two years in Greek beyond the requirement for A. B. will fulfill the requirement of a Greek Minor in any group.

The courses in this department are intended to combine culture with accuracy throughout. They are consecutive and contain the cream of Greek literature. Those taking but one year will find it valuable for literary, scientific, or theological purposes, while those who wish to proceed through the advanced courses may become fully prepared for graduate work. The important topics connected with the Greek language and literature are fully discussed by the aid of informal lectures, collateral reading, and frequent essays.

A. College Beginning Greek.

- (a) Grammar (Goodwin). Beginning Book (Archibald.)
- (b) Gospel of John (White.)
- (c) Xenophon: Anabasis, I-III (Harper and Wallace.)

The chief aim of this course is a good grounding in Greek, but considerable attention is also given to the subject matter, and 500 English derivatives are analyzed. This course is essential for those preparing to teach Latin in the high schools of California, and is a minimum for the Rhodes Scholarships. Identical with admission subject 16.

5 hours, through the year (10 units.)

1. Xenophon, Homer.

(a) Xenophon: Cyropedia (Gleason's Story of Cyrus.)

(b) Composition (Pearson.)

(c) Homer: Iliad, I-III (Benner).

This course is identical with admission subject 17 and is mainly an introduction to the vocabulary, style, and rythm of Homer.

Prerequisite, admission subject 16 or course A.

5 hours, first semester.

2. Homer, Plato.

(a) Homer: Iliad (Benner completed,) amounting to five additional books.

(b) Plato: Apology and Crito (Kitchel.)

The metrical and dramatic elements of the epic are studied, and the student is introduced to the style of Plato and the teachings of Socrates.

Prerequisite, admission subject 17 or course 1.

5 hours, second semester.

3. Plato.

Gorgias (Lodge). A more detailed examination of the teachings of Plato and Socrates.

Prerequisite, course 2.

3 hours, first semester.

4. The Drama.

(a) Aristophanes: Clouds (Humphreys.)

(b) Sophocles: Antigone (D'Ooge.)

Greek comedy is studied in its development and in contrast to the more serious tragedy. Plot,

metrics, and the Greek theatre receive considerable attention.

Prerequisite, course 3.

3 hours, second semester.

5. Prose Composition I.

For those preparing to teach Greek in the high schools of California, this course is essential. It may be taken by those entering with three years of Greek, but is best taken after course 2.

2 hours, first semester.

6. Prose Composition II.

Prerequisite, courses 4 and 5.

2 hours, second semester.

Advanced Courses

Two of these are offered each year, 7 and 8 being offered in 1907-8. The common prerequisite to all is course 4.

7. Homer.

Odyssey, I-IX (Perrin and Seymour.) Homeric life and style in detail. A comparison of the Iliad and the Odyssey.

3 hours, first semester.

8. Herodotus.

Books VII and VIII (Smith). Collateral reading covering the whole period of the history. Herodotean style.

3 hours, second semester.

9. Thucydides.

Books I and II (Morris, Lamberton.) Collateral

reading covering the Peloponnesian War. Contemporary archeology.

3 hours, first semester.

10. **Tragedy.**

Sophocles: Oedipus Tyrannus (Jebb.) Euripides: Medea (Earle,) Alcestis (Hayley.) Collateral study of Aristotle's Poetics.

3 hours, second semester.

FRENCH

Professor Wilson.

1. **Elementary.**

First semester. Thorough drill in fundamental rules of grammar with daily oral and written exercises. Reading of short stories and conversation on text read.

Second Semester. Drill on irregular verbs, idioms, elements of syntax. Reading of prose by modern authors. Easy composition. Special attention is given to acquiring a vocabulary.

French being a living language, great attention is paid in this and the following courses to correct pronunciation and accentuation.

5 hours, through the year (10 units.)

2. **Prose by Modern Authors.**

Conversation on text read. Advanced grammar, written exercises, idioms, composition, dictation.

Prerequisite, admission subject 21 or course 1.
3 hours, through the year (6 units).

Advanced Courses

3. **Advanced Composition.**

Reading: Prose by Sand, Balzac, Rostand.
Themes and conversations on works read.
Sight translation of prose.
Reading of Classics: Molière, Racine.

Prerequisite, course 2.

3 hours, through the year (6 units.)

4. **Chateaubriand**, dramas by Victor Hugo, History of French Literature in form of lectures with written reports from students. Conversation and discussion on texts read.

Prerequisite, course 3.

3 hours, through the year (6 units).

GERMAN

Professor Behnke,

Assisted by Professor Wilson.

1. **Elementary.**

It is expected that this class will do the equivalent of the work mapped out for the regular two-years course in German of the academy and enable the student to continue creditably in the college course.

5 hours, through the year (10 units.)

Professor Behnke.

2. **Modern Prose and Poetry.**

German Classics: Schiller. Essentials of Ger-

man grammar, including the more detailed work of syntax and composition. German conversation.

Prerequisite, course 1.

3 hours, through the year (6 units).

Professor Wilson.

Advanced Courses

3. Classics.

Lessing, Goethe, Schiller; selected dramas. Biographies and life work outlined. Solid composition and essay writing.

Prerequisite, course 2.

3 hours, through the year (6 units.)

Professor Behnke.

4. **Condensed Outline of German Mythology, History and Literature** which will enable the student to acquire valuable knowledge of European conditions, past and present. This course, being specially prepared to fit our time limitations, is given in German, and students will be expected to write an occasional essay in German on the topic previously discussed, looking for further references elsewhere. These essays will determine their grade of scholarship.

Prerequisite, course 3.

3 hours, through the year (6 units.)

Professor Behnke.

SPANISH

Professor Behnke.

1. Elementary.

Elements of Spanish grammar, composition, dialogues, short stories and poetry. The verb and vocabulary drill will be a feature of the second semester. Identical with admission subject 24.

Prerequisite, admission subject 13 or 21.

4 hours, through the year (8 units.)

2. Essentials of Advanced Spanish Grammar and Composition.

Reading of selections from Cervantes, Lope de Vega, Alarcón, Moratín, Iriarte, etc.

Prerequisite, course 1 or admission subject 24.

3 hours, through the year (6 units.)

3. Condensed History of Spain and of Spanish Literature, the latter intended as a study of great authors of the eighteenth and nineteenth centuries. Occasional essays and criticisms in Spanish will be required.

Prerequisite, course 2.

3 hours, through the year (6 units.)

HISTORY

Professor Cunningham.

1. History of England.

A general view of the political history of England. Special study of the constitutional and

intellectual development of the English nation.
3 hours, through the year (6 units.)

2. History of the Middle Ages.

An outline study of the history of Western Europe from the Teutonic Migrations to the Peace of Westphalia. Special study of the rise and development of the different nationalities.

3 hours, through the year (6 units.)

Advanced Courses

Courses 1 and 2 are prerequisite to all advanced courses in History. A student may for special reasons be admitted to one of the following courses who lacks part of the prerequisite; but in that case it will not be counted as an advanced course.

3. Europe in the Sixteenth Century.

A study of the greater political powers of Western Europe.

3 hours, first semester.

4. The Renaissance in Italy.

A study of the origin, nature and varied manifestations of the Renaissance in Italy. Lectures by professors in Natural Sciences, Ancient and Modern Languages, Art and Economics.

3 hours, second semester.

5. American History 1492-1783.

Beginnings of the American nation: the European inheritance. American colonial history:

growth of colonial institutions. Causes of the Revolution: growth of independence.

3 hours, first semester.

6. American History from 1783.

A study of national development: the government, the expansion, and the development of the United States.

Additional prerequisite, course 5.

3 hours, second semester.

ECONOMICS AND SOCIOLOGY

Professor Stevenson.

Courses 1 and 3 are recommended to students who expect to take only one year's work in this department; but such students may register for courses 1 and 2.

Courses 1 and 2 are intended primarily for Juniors and Seniors, but they are open to Sophomores who expect to take advanced courses in Economics.

1. Economics.

An introductory course dealing with essential facts and principles, and prerequisite to all other courses. The text book will be followed in the order of topics and the general manner of treatment; but full and free discussion of controverted points will be required, together with careful reading of standard authorities, and preparation of papers on assigned topics.

3 hours, first semester.

2. **Money and Banking.**

The fundamental principles of monetary theory, the history and the practice of banking, and discussion of current problems and legislation. Text books, lectures, and papers.

Prerequisite, course 1.

3 hours, second semester.

Advanced Courses

History 1 is prerequisite to all advanced courses in this department. Additional prerequisites are stated below.

3. **Sociology.**

An introduction to sociological theory, with incidental discussion of the practical problems relating to social reforms and with constant reference to the influence of Christianity on the development of modern society. Lectures and assigned readings.

Prerequisite, course 2; but courses 2 and 3 may be taken in the reverse order, in which case 2 will be counted as an advanced course and 1 and 3 as its prerequisite.

3 hours, first semester.

4. **Practical Sociology.**

The application of sociological principles to charity, criminology, and constructive social work. Lectures, the literature of the subject, and personal investigation. Los Angeles offers ample opportunity for field work in the many institutions and conditions that illustrate near-

ly every phase of social health and social disease.

Prerequisite, course 3.

3 hours, second semester.

5. Public Finance.

A study of public revenue and expenditure and of financial administration, with special reference to the principles and practice of taxation in the United States.

Prerequisite, courses 1 to 4 inclusive.

3 hours, first semester.

6. Modern Industrialism.

A critical study of the problems arising from present industrial conditions—the relation of labor and capital, combinations, etc., and of current questions of special interest and importance.

Prerequisite, as in course 5.

3 hours, second semester.

7. Advanced Economics.

A detailed examination of subjects treated less fully in course 1. Special attention is given to topics that bear on the relation between the present social order and the distribution of wealth. Text books and lectures.

Prerequisite, as in course 5.

Courses 6 and 7 are not given in the same year.

MATHEMATICS

Professor Allen,
Instructor Peterson.

1. College Algebra.

This course includes the development and application of the binomial theorem and of the exponential and logarithmic series, permutations and combinations, and the theory of equations.

Prerequisite, admission subjects 4 and 6.
3 hours, first semester.

Instructor Peterson.

2. Plane and Spherical Trigonometry.

The development of the general formulae of trigonometry. The theory and use of logarithms. The application of trigonometry to numerous problems in plane and spherical mensuration.

Prerequisite, admission subjects 4 and 6.
3 hours, second semester.

Instructor Peterson.

3. Plane Analytics.

A study of analytic methods, the analytic geometry of the straight line, the circle, and the conic sections, and investigation of the general equation of the second degree.

Prerequisite, courses 1 and 2.
3 hours, first semester.

Instructor Peterson.

4. Differential Calculus.

The principles and formulae of differential calculus, and the application to such problems as maxima and minima, indeterminate forms, expansion of series, etc.

Prerequisite, course 3.

3 hours, second semester.

Professor Allen.

5. Mathematical Helps.

A course in the use of logarithms, Crelle's calculating tables, polar planimeter, and the slide rule. Many problems will be solved, and the problems will be made practical by being chosen from various branches of applied mathematics.

Prerequisite, course 3.

3 hours, second semester.

Instructor Peterson.

Advanced Courses

6. Integral Calculus.

The principles and formulae of integral calculus, with application to problems in integration, such as lengths of curves, areas, volumes, etc.

Prerequisite, course 4.

3 hours, first semester.

Professor Allen.

7. Elements of Mechanics.

Investigation and application of the best methods of applied mechanics to the development of

the fundamental principles and methods of rational mechanics.

Prerequisite, course 4.

3 hours, second semester.

Professor Allen.

8. Theory of Equations.

The theory of determinants; the theory, analysis, and solution of higher numerical and algebraic equations.

Prerequisite, course 4.

3 hours, first semester.

Professor Allen.

9. Higher Analytics.

A more advanced course than course 3, including a study of higher plane curves and the elements of solid analytic geometry.

Prerequisite, course 4.

3 hours, first semester.

Professor Allen.

10. Surveying.

The department is equipped with a transit, Y level, Gunter's chain, steel tape, leveling rod, planimeter, slide rules, highly graduated protractor, parallel rules, etc. The principles of land surveying, irrigation, and railroad engineering will engage the attention of the class in actual field work, and the reduction of the field notes to plots drawn to scale.

Prerequisite, course 4; but open to those who have completed 1 and 2 if not taken as an advanced course.

3 hours, second semester.

Professor Allen.

11. **Astronomy 2** may count as an advanced course in Mathematics for those who have completed Mathematics 4.

ASTRONOMY

Professor Allen.

1. **General Astronomy.**

A course in descriptive astronomy. Simple problems and questions, involving the fundamental principles of astronomy. Study of nebulae, planets, and constellations, with the telescope.

Prerequisite, Mathematics 1 and 2.

3 hours, first semester.

2. **Practical Astronomy.**

Lectures and observatory work. The determination of time, latitude, and longitude, and the computation of current eclipses and occultation of stars.

Prerequisite, admission subject 7, Mathematics 3, Astronomy 1.

3 hours, second semester.

PHYSICS

Professor Beals,

Assistant Professor.....

Assistant Blee.

1. **General Physics.**

Mechanics, molecular physics, and heat. Lec-

tures and recitations: laws and principles, mathematical treatment, problems, written exercises. This course has experimental illustration throughout.

Prerequisite, academy or high school physics with the grade of "recommended."

2 hours, through the year (4 units).

Assistant Professor.....

2. Physical Measurements.

Mechanics, molecular physics, and heat. Laboratory with quantitative experiments requiring not only care in manipulation and accuracy of observation but also a thorough understanding of the principles involved. This course accompanies course 1.

Prerequisite, same as for course 1.

3 consecutive hours once or twice a week, through the year (2 or 4 units).

Assistant Professor.....

Assistant Blee.

3. General Physics.

Sound, light, electricity, and magnetism. Lectures with full experimental illustration, recitations, problems, reading, written exercises. This course includes the elements of wave motion and the electro-magnetic theory, with application to light, electricity, and wireless telegraphy.

Prerequisite, Physics 1 and 2, Trigonometry, some knowledge of Chemistry.

3 hours, through the year (6 units).

Professor Beals.

4. **Physical Measurements.**

Sound, light, electricity, and magnetism. Experimental work requiring keener observation and greater accuracy than in Physics 1. Instruments of precision are employed and the course is expected not only to develop familiarity with physical phenomena, but, at the same time, to give skill in accurate measurement. This course is varied by means of alternative experiments and by the study of special problems in which the student may be especially interested. This course accompanies course 3.

Prerequisite, same as for course 3.

3 consecutive hours once a week, through the year (2 units).

Professor Beals.

Assistant Blee.

Advanced Courses

5. **Electrical Theory.**

Lectures and recitations on the mathematical theory of electricity and magnetism. Applications of the theory are made to the more important instruments. This course follows for the most part J. J. Thomson's Elements of Electricity and Magnetism.

Prerequisite, Physics 1, 2, 3, and Mathematics 4 and 5.

3 hours, first semester.

Professor Beals.

6. Absolute Electrical Measurements.

Lectures with advanced laboratory work in electricity and magnetism. This course requires maturity of thought and a marked degree of precision in measurement of electrical quantities with instruments of high grade.

Prerequisite, Physics 4, 5, Mathematics 4, 5, 6.

1 hour lecture, 3 consecutive hours laboratory twice a week, second semester (3 units).

Professor Beals.

Assistant Blee.

CHEMISTRY

Professor Shaw,

Instructor.....

Assistant Blee.

1. General Inorganic Chemistry.

Non-metals the first semester and Metals the second. Lectures and recitations with experimental illustration.

Prerequisite, academy chemistry or its equivalent.

3 hours per week, through the year (6 units).

Professor Shaw.

2. Advanced Inorganic.

Verification of the general laws of Chemistry with experiments illustrating recent developments in physico-chemical science. Laboratory.

Prerequisite, course 1 completed or in progress.

6 hours, first semester (2 units).

Instructor.....

3. Qualitative Analysis.

Analysis and tests of a series of known substances followed by complete analysis of unknowns. Laboratory.

Prerequisite, course 2 completed and course 1 completed or in progress.

6 hours, second semester (2 units).

Instructor.....

4. Quantitative Chemistry.

Gravimetric and Volumetric Determinations. Laboratory.

Prerequisite, courses 1 to 3 inclusive.

9 hours, first semester (3 units).

Professor Shaw.

5. Organic Chemistry.

Chemistry of carbon compounds. An elementary course, using Remsen as a text book. Lectures and recitations.

Prerequisite, courses 1 to 3 inclusive.

2 hours, second semester.

Professor Shaw.

Advanced Courses

6. Organic Chemistry.

A study of some of the more important fatty compounds. Lectures and recitations. Perkin and Kipping is used as a text book.

Prerequisite, courses 1 to 5 inclusive.

2 hours, first semester.

Professor Shaw.

7. Organic Chemistry.

Purification and analysis of chemical compounds with preparation of typical substances. Laboratory. To accompany course 6.

Prerequisite, same as for course 6.

9 hours, first semester (3 units).

Professor Shaw.

8. Assaying.

Preparation of the ore, scorification, cupellation, parting of gold and silver, determination of copper, lead, and tin.

Prerequisite, courses 1 to 4 inclusive.

6 hours, second semester (2 units).

Professor Shaw.

9. Elements of Physical Chemistry.

Lectures, with study of a manual.

Prerequisite, courses 1 to 4 inclusive, Physics 3 and 4.

2 hours, first semester.

Professor Shaw.

10. Advanced Quantitative.

Special Methods, preparation for research work. Laboratory.

Prerequisite, courses 1 to 5 inclusive.

9 hours, second semester (3 units).

Professor Shaw.

BIOLOGY

Professor McClelland,
Assistant Professor.....
Assistant Goodell.

Zoology

1. Principles of Zoology.

A survey of the phenomena of animal life. Lectures illustrated with lantern, charts, models, and prepared specimens. Papers required on assigned topics. Students who wish this course to count as a part of the prerequisite for advanced courses in Biology must take it coincidentally with the laboratory work in course 2.

3 hours, through the year (6 units).

Professor McClelland.

2. General Zoology.

Principally a laboratory course on invertebrate types. Laboratory work 5 hours, lecture or recitation 1 hour.

Prerequisite, course 1 completed or in progress.

3 consecutive hours twice a week, first semester (2 units).

Professor McClelland.

3. General Zoology.

A continuation of course 2. In the laboratory particular attention will be paid to the development and anatomy of the frog.

Prerequisite, course 2.

3 consecutive hours twice a week, second semester (2 units).

Professor McClelland.

Advanced Courses

4. **Anatomy of Vertebrates.**

A course in the dissection of the higher vertebrates, accompanied by lectures, recitations, and quizzes. Constant comparison is made with human anatomy by means of a manikin. Students preparing for medicine will find this course indispensable.

Prerequisite, courses 1, 2 and 3.

3 consecutive hours in the laboratory twice a week and two hours of lectures or recitations, first semester (4 units).

Professor McClelland.

5. **Cytology and Histology.**

The first few weeks of this course will be devoted to the study of the animal cell followed by a histological study of the organs and tissues of the higher vertebrates. Constant use will be made of the lantern and microscope in the laboratory. Each student is required to make a series of mounts for his own possession. Not given in the same year with course 6.

Prerequisite, courses 1, 2, and 3.

3 consecutive hours in the laboratory twice a week and two hours of lectures or recitations, second semester (4 units).

Professor McClelland.

6. Comparative Embryology of Vertebrates.

Lectures on the systematic development of a few types such as are necessary to demonstrate the laws which govern the development of all the species. A complete series of notes is required of each student, accompanied by quizzes, recitations, and reports on assigned topics. Laboratory work on the embryology of the chick. Not given in the same year with course 5.

Prerequisite, courses 1, 2, and 3.

3 consecutive hours twice a week in the laboratory and 2 hours of lectures or recitations, second semester (4 units).

Professor McClelland.

Botany

1. General Plant Physiology.

An experimental course in plant functions, growths, and movements. Demonstrations of the effect of a change of conditions on plants in the field and in the laboratory.

Prerequisite, one year each of elementary Botany and elementary Chemistry.

3 consecutive hours twice a week, first semester (3 units).

Assistant Professor.....

2. General Plant Morphology.

A morphological study of flowering plants.

Prerequisite, one year of elementary Botany.

3 consecutive hours twice a week, second semester (3 units).

Assistant Professor.....

GEOLOGY

Professor

1. Dynamical Geology.

Atmospheric, aqueous, igneous, and organic agents in their past and present operations.

Prerequisite, elementary courses in Physiology, Chemistry, Botany, and Zoology.

3 consecutive hours a week in the field or laboratory, and 2 hours of lectures or recitations, first semester (3 units).

2. Historical Geology.

The development of the earth's form, structure, and primeval inhabitants, to the end of the Iron Age.

Prerequisite, course 1.

3 consecutive hours a week in the field and 2 hours of recitation, second semester (3 units).

MECHANICAL DRAWING

Instructor Westcott.

These courses cover such fundamental principles of Mechanical Drawing as are necessary for the student expecting to pursue science or engineering courses. Open to all.

1. Instrumental Drawing, solving of geometrical

problems, construction of mathematical curves, freehand lettering.

3 hours, first semester (1 unit).

2. **Principles of Orthographic Projection**, development of surfaces, intersections, isometric projection.

3 hours, two semesters (2 units).

3. **Principles of Projection** applied to working drawings, elements of machine movements, cam, lever, link motion, freehand shop sketching.

3 hours, first semester (1 unit).

4. **Working Drawings of Machines**, tracings, blueprints, detail and assembly drawings, elementary principles of gearing.

3 hours, second semester (1 unit).

Special work will be arranged for students desiring more advanced work in machine or architectural drawing.

PHYSICAL TRAINING

John L. Goheen, Director for Men.

Nelye M. Dickson, Director for Women.

1. For Men.

The work in this department consists of drills, marching, and progressive exercise with dumbbells, clubs, wands, chest weights, etc., and heavy apparatus work. Out door field sports are also engaged in. Each student is given a physical examination before entering upon the

work. Those who play on the various college athletic teams are exempt from gymnasium work during that portion of the season which such athletic contests cover. Required of the young men.

2 hours, through the Freshman and Sophomore years (4 units).

2. For Women.

The work consists of exercises for correct walking, standing, breathing, poise, and general development. Light apparatus work with dumbbells, wands, Indian clubs, and chest weights will be included in the course. All young women are expected to participate in some out door sport; either basket ball, tennis, or volley ball. Special suits are required for the gymnasium. The Director should be consulted in order that there may be uniformity of costume. Required of the young women.

2 hours, through the Freshman and Sophomore years (4 units).

Schedules

SCHEDULE OF LECTURES AND RECITATIONS—First Semester

Arabic numerals refer to courses, Roman numerals to sections of classes. "Adv." stands for Advanced Courses. For subjects having no hours assigned, the schedule will be arranged when classes are formed. Chapel exercises are held daily at 11:00 a. m.

MONDAY					
8:00	9:00	10:00	11:20	1:00	2:00
French 1 German 1 Greek A Latin A Education	Bible 1, I English 21 Chemistry 9 Spanish 2	Bible 1, II German 2 Greek 3 Economics 1 Physics 3 Geology 1 Spanish 1 Chemistry 6	Greek 1 Zoology 1 Psychology 3 Spanish 3	Physics 2, II Chemistry 4 Chemistry 7 Latin 1 History Adv. French 4	Physics 2, II Chemistry 4 Chemistry 7 Latin 3 History 2 English Adv. Mathematics 8
					Physics 2, II Chemistry 4 Chemistry 7
TUESDAY					
French 1 German 1 Greek A Latin A Psychology Astronomy 1	Math. 1, I Physics 1, II English 2, I Latin Adv. French 3 Econom. Adv. Zoology 4 German 4 Physics 5	Math. 1, II Physics 1, I English 2, II Physics 3 Oratory 2 Bible 4	History 1 Chemistry 1 French 2 Mathematics 3 German 3 Mathematics 6 Ethics	Physics 2, I Zoology 2 Zoology 4 Botany 1 Drawing 3 Latin 3 History 2 English Adv. Mathematics 8 Spanish 3	Physics 2, I Zoology 2 Zoology 4 Botany 1 Drawing 3 Greek 1

WEDNESDAY

French 1 German 1 Greek A Latin A Education Elective Bible	Bible 1, II English 1, I English 21 Chemistry 9 Spanish 2	Bible 1, I English 1, I, II German 2 Greek 3 Economics 1 Zoology 1 Geology 1 Spanish 1 Chemistry 6 Astronomy 1	History 1 Chemistry 1 French 2 Mathematics 3 German 3 Mathematics 6 Ethics	Physics 4 Zoology 2 Zoology 4 Botany 1 Geology 1 Drawing 1 Drawing 2 Greek Adv.	Physics 4 Zoology 2 Zoology 4 Botany 1 Geology 1 Drawing 1 Drawing 2 Greek 1
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THURSDAY

French 1 German 1 Greek A Latin A Education Elective Bible	Math. 1, I Physics 1, I, II English 2, I Latin Adv. French 3 Econ. Adv. Zoology 4 German 4 Physics 5	Math. 1, II Physics 1, I English 2, II Physics 3 Oratory 2 Bible 4	History 1 Chemistry 1 French 2 Mathematics 3 German 3 Mathematics 6 Ethics	Chemistry 2 Chemistry 4 Chemistry 7 Latin 3 History 2 English Adv. 8 Mathematics 3 Spanish 3	Chemistry 2 Chemistry 4 Chemistry 7 Greek 1
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FRIDAY

French 1 German 1 Greek A Latin A Astronomy 1 Psychology	English 1, II Math. 1, I English 1, 21 Latin Adv. French 3 Econ. Adv. German 4 Physics 5	English 1, I Math. 1, II German 2 Greek 3 Economics 1 Zoology 1 Spanish 1	Chemistry 2 Chemistry 4 Chemistry 7 Latin 1 History Adv. French 4	Chemistry 2 Chemistry 4 Chemistry 7 Greek Adv. Spanish 2	Chemistry 2 Chemistry 4 Chemistry 7 Greek 1
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SCHEDULE OF LECTURES AND RECITATIONS—Second Semester

Arabic numerals refer to courses, Roman numerals to sections of classes. "Adv." stands for Advanced Courses. For subjects having no hours assigned, the schedule will be arranged when classes are formed. Chapel exercises are held daily at 11:00 a. m.

MONDAY					
8:00	9:00	10:00	11:20	1:00	2:00
French 1 German 1 Greek A Latin A Education	Oratory 1, I English 22 Zoology 5 or 6 Spanish 2	Oratory 1, II Chemistry 1 German 2 Greek 4 Economics 2 Physics 3 Geology 2 Spanish 1 Mathemat. 10	Greek 2 Zoology 1 Logic Spanish 3	Physics 2, II Zoology 5 or 6 Physics 6 Oratory 1, III Latin 2 History Adv. French 4	Physics 2, II Zoology 5 or 6 Physics 6 Latin 4 History 2 Mathematics 4 English Adv.
					Physics 2, II Zoology 5 or 6 Physics 6
TUESDAY					
French 1 German 1 Greek A Latin A Logic	Math. 2, I Physics 1, II Bible 2 Latin Adv. French 3 Econom. Adv. German 4 Physics 6	Math. 2, II Physics 1, I Physics 3 Bible 3	History 1 French 2 Chemistry 5 German 3 Mathematics 7 Hist. of Phil.	Physics 2, I Zoology 3 Chemistry 10 Botany 2 Drawing 4 Greek Adv. 2 Astronomy 2	Physics 2, I Zoology 3 Chemistry 10 Botany 2 Drawing 4 Greek 2 Mathematics 4 History 2 English Adv. Spanish 3
					Physics 2, I Zoology 3 Chemistry 10 Botany 2 Drawing 4 Greek 2

WEDNESDAY

French 1 German 1 Greek A Latin A Education Elective Bible	Oratory 1, I English 1, II English 22 Spanish 2	Oratory 1, II English 1, I German 2 Greek 4 Economics 2 Zoology 1 Geology 2 Spanish 1 Mathemat. 10	History 1 Chemistry 1 French 2 German 3 Mathematics 7 Hist. of Phil.	Zoology 3 Chemistry 8 Chemistry 10 Botany 2 Geology 2 Drawing 2 Greek Adv. 2 Astronomy 2	Zoology 3 Chemistry 8 Chemistry 10 Botany 2 Geology 2 Drawing 2 Greek 2
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THURSDAY

French 1 German 1 Greek A Latin A Education Elective Bible	Math. 2, I Physics 1, II Bible 2 Latin Adv. French 3 Econom. Adv. German 4	Math. 2, II Physics 1, I Physics 3 Bible 3	History 1 French 2 Chemistry 5 German 3 Mathematics 7 Hist. of Phil.	Chemistry 3 Physics 4 Chemistry 8 Chemistry 10 Astronomy 2 Spanish 1	Chemistry 3 Physics 4 Chemistry 8 Chemistry 10 Latin 4 History 2 Mathematics 4 English Adv. Spanish 3
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FRIDAY

French 1 German 1 Greek A Latin A Logic	English 1, II Math. 2, I English 22 Latin Adv. French 3 Econom. Adv. Zoology 5 or 6 German 4	English 1, I Math. 2, II German 2 Greek 4 Economics 2 Zoology 1 Spanish 1 Mathemat. 10	Chemistry 3 Zoology 5 or 6 Physics 6 Latin 2 History Adv. French 4	Chemistry 3 Zoology 5 or 6 Physics 6 Chemistry 1 Greek Adv. Spanish 2	Chemistry 3 Zoology 5 or 6 Physics 6 Greek 2
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ACADEMY

General Statement

The principal aim of the Academy is to provide thorough preparation for Occidental College and for other high-grade colleges or universities. At the same time the courses of study are so arranged as to afford a well-rounded education for those who do not purpose entering college. Classical, Literary and Scientific courses are offered, in each of which the work covers four years.

ADMISSION

All candidates for admission must present satisfactory testimonials of good moral character, and of good standing in the schools from which they come. To be admitted to the first year class of the Academy, an applicant must have completed the work required of eighth grade pupils in the public schools of this state. The candidate must present a certificate showing that he has done the work required, or pass satisfactory examinations in English grammar, arithmetic, and United States history.

To be admitted to an advanced class, an applicant must have done the work required in the lower classes, or its equivalent. Except in so far as he shall be credited with such work, he will be

examined in the studies passed by the class which he proposes to enter.

GRADUATION

A student who completes any one of the prescribed courses of study receives the Academy diploma.

SYNOPSIS OF COURSES

The figures indicate the number of recitations per week. The recitation period in the Academy is 45 minutes, two periods in the laboratory counting as one.

In addition to the work outlined below each student in the Academy is required to devote two periods per week to physical training under one of the Directors of physical training.

	Classical		Literary		Scientific	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
1st YEAR	Bible 1 English 5 Latin 5 Algebra 5 Anc't History. 5	Bible 1 English 5 Latin 5 Algebra 5 Anc't History. 5	Bible 1 English 5 Latin 5 Algebra 5 Anc't History. 5	Bible 1 English 5 Latin 5 Algebra 5 Anc't History. 5	Bible 1 English 5 Latin 5 Algebra 5 Phys. Geog... 5	Bible 1 English 5 Latin 5 Algebra 5 Phys. Geog... 5
2d YEAR	Bible 1 English 5 Latin 5 Mediaeval History 5 Algebra 5	Bible 1 English 5 Latin 5 Modern History 5 Plane Geometry .. 5	Bible 1 English 5 Latin 5 Mediaeval History 5 Plane Geometry .. 5	Bible 1 English 5 Latin 5 Modern History 5 Plane Geometry .. 5	Bible 1 English 5 Latin 5 Botany 5 Plane Geometry .. 5	Bible 1 English 5 Latin 5 Botany 5 Plane Geometry .. 5
3d YEAR	Bible 1 English 5 Latin 5 Greek 5 U. S. History. 5	Bible 1 English 5 Latin 5 Greek 5 U. S. History. 5	Bible 1 English 5 Latin* 5 French or German 5 U. S. History. 5	Bible 1 English 5 Latin 5 French or German 5 U. S. History. 5	Bible 1 English 5 Chemistry ... 5 French or German 5 U. S. History. 5	Bible 1 English 5 Chemistry ... 5 French or German 5 U. S. History. 5
4th YEAR	Bible 1 Plane Geometry .. 5 Latin 5 Greek 5 Physics 5	Bible 1 English 5 Latin 5 Greek 5 Physics 5	Bible 1 English 5 Latin 5 French or German ** .. 5 Physics 5	Bible 1 English 5 Latin 5 French or German ** .. 5 Physics 5	Bible 1 Plane Geometry .. 5 Adv. Arith... 5 French or German ** .. 5 Physics 5	Bible 1 Solid Geometry .. 5 English 5 French or German ** .. 5 Physics 5

*In the Literary course, two years of Greek may be substituted for the last two years of Latin; or a year's work in some other subject may be substituted for the last year of Latin, subject to the approval of the Classification Committee.

**In the Literary and Scientific courses the language chosen in the third year must be continued through the fourth.

Departments of Instruction

BIBLE

The Academy provides a Bible course of one hour per week throughout the four years, which is required of all pupils. The Bible itself is the textbook used. The aim of this course is to give a comprehensive knowledge of the contents of the Book. The divisions under which the ground is covered are as follows:

First Year. Classification of the books of the Old and New Testaments. The Pentateuch.

Second Year. History of the Hebrew Nation from the Conquest of Canaan to the Division of the Kingdom.

Third Year. History of Israel to the Fall of Samaria. History of Judah to the Fall of Jerusalem. The Captivity. The Restoration. The Prophets—the man and the message.

Fourth Year. The Life of Christ. The Founding of the Christian Church. The Life and Journeys of St. Paul.

ENGLISH

The general aim of the English course is to extend widely and pleasurably the pupil's acquaint-

tance with good books and to give him a fair degree of accuracy and fluency in the expression of his ideas in speech and in writing. English is required of students in all courses in each of the four years. Owing to the pressure of other requirements, the subject is omitted during a semester of the fourth year. The total number of hours will be seen to exceed three full years' work of five hours a week. In the first two years stress is laid upon work in composition, with the literature incidental and supplemental. In the last two years conditions are reversed. Composition, oral and written, occupies one-half of the time of the entire course, or a total of one and a half years. A list of supplementary readings, for perusal at home, is assigned in addition to work studied in class. In the fourth year the work is confined to the College entrance requirements in English, accompanied by a rapid survey of the great periods of English literature.

First Year. First Semester. Review of essentials of grammar, two periods a week. Composition, based upon Scott and Denny's Elementary English Composition, three periods a week. Lessons I-XX Daly's Rational Speller.

Second Semester. Composition, two periods a week. Lessons XX-XL Daly's Rational Speller. Literature, three periods a week: Lay of the Last Minstrel; Ivanhoe; Selections from Irving and Hawthorne.

Supplementary Reading. Stevenson, Treasure Island; Hale, A Man Without a Country; Bunyan, Pilgrim's Progress; Hughes, Tom Brown's School Days; Arnold, Sohrab and Rustum; Shakespeare, As You Like It; Macaulay, Lays of Ancient Rome.

Second Year. First Semester. Four periods a week. Composition and Rhetoric, Herrick and Damon.

Second Semester. Four periods a week. Composition and Rhetoric continued. Literature: Julius Caesar; Merchant of Venice; Tale of Two Cities.

Supplementary Reading. Lowell, Vision of Sir Launfal; Lamb, Essays of Elia; Franklin, Autobiography; Selections from American Poets.

Third Year. First Semester. Five periods a week. Study of prose forms, essay, oration, novel, short story, development of magazine and newspaper. Literature: Carlyle, Essay on Burns; Addison, Roger de Coverley Papers; Webster's First Bunker Hill Oration, Lincoln's Gettysburg Speech, Washington's Farewell Address; Eliot, Silas Marner; Poe, selected tales.

Second Semester. Four periods a week. Study of elements of poetry. Literature: selected poems of Byron, Keats, Shelley, Wordsworth; Coleridge, Ancient Mariner; Goldsmith, Deserted Village; Tennyson—Coming of Arthur, Gareth and Lynette, Lancelot and Elaine, Passing of Arthur.

Supplementary Reading. Irving, Life of Gold-

smith; Blackmore, Lorna Doone; Tennyson, Princess; Emerson, American Scholar; Lowell, Commemoration Ode.

Fourth Year. Second Semester. Four periods a week. Outline of great periods of English Literature. Literature: Shakespeare, Macbeth; Milton, L'Allegro, Il Penseroso, Lycidas, Comus; Burke, Speech on Conciliation with America.

Supplementary Reading. Macaulay, Essay on Milton; Thackeray, Henry Esmond.

LATIN

First Year. Correct pronunciation, accurate knowledge of forms, a reasonable vocabulary, and familiarity with the underlying principles of Latin syntax constitute the aim of the first year's work. The translation of easy sentences from English into Latin and from Latin into English is accompanied by daily drill on inflexions and review of the ground already covered. Collar and Daniel's "First Year Latin" is used as a text book.

Second Year. While translating four books of Caesar a thorough study of syntax is made, involving the frequent turning into Latin of English sentences based on the text read. Forms are reviewed and a limited amount of sight reading is undertaken. The plan of Caesar's campaigns, as well as the Roman art of warfare in general, is given as much attention as can be spared at this stage in the acquisition of a new language. In connection with this course and the two which follow, Bennett's Grammar is in daily use.

Third Year. Cicero's orations against Catiline, for the Manilian Law, and for the poet Archias furnish the basis for the work of the third year. Practice in Latin composition is maintained, with closer attention to synonyms, order of words, and idiomatic forms of expression than before. Sight reading from advanced portions of the text or from the author's other works claim a share of the time. Additional topics for study are found in the topography of Rome and the political movements of the Ciceronian period.

Fourth Year. This course covers the first six books of Vergil's Aeneid. The student is supposed to have reached a stage where he can begin to appreciate some of the finer qualities of a great classic. While keeping up the drill on grammatical principles, special effort is made to catch the spirit of the epic and bring out those touches of poetic beauty and power in which the Aeneid abounds. Quantity and versification are studied until the pupil is able to read the hexameter with ease and to use his knowledge as a practical corrective in translation. Sight reading, from passages in Vergil or Ovid, is not neglected. Composition is continued, based on the authors previously read.

GREEK

In the preparatory Greek, attention is given about equally to vocabulary, forms, and syntax, together with etymology of Greek words and English derivatives.

There is an ever increasing and perfectly just de-

mand that the student who takes even one year of Greek should secure a considerably better acquaintance with the English language thereby. This is the more true as Greek words are coming more and more rapidly into our common speech. The student of science, particularly, and especially in biological and medical lines, is badly off without such aid. This word-study pays for itself by impressing the Greek words more easily and permanently, actually leaving more time and energy for the mastering of forms.

The *Anabasis* is read mainly as Greek, but also as an interesting bit of history and adventure. The Gospel of John is read in addition to the usual amount of Xenophon and Prose Composition.

The *Iliad* is ordinarily begun in the first semester of the Freshman year.

First Year. Beginning Greek. (a) First Greek Book (White); Greek Grammar (Goodwin). (b) John's Gospel (White).

Second Year. Xenophon and Prose Composition. (a) Xenophon, *Anabasis*, I-IV (Harper and Wallace). (b) Composition (Pearson, Parts I and II.)

FRENCH

First Year. The work comprises a thorough drill in the fundamental rules of grammar with copious written and oral exercises. The regular verbs and the most common irregular verbs are studied. Very simple texts are read and used as the basis of conversation.

Second Year. The work comprises a review of the grammar, the study of the irregular verbs, the uses of the subjunctive. Frequent written exercises in the advanced grammar are required. About 200 pages of modern prose are read. Easy composition is introduced, and conversation based on the selections read.

GERMAN

First Year. Elementary training in German grammar, correct reading, easy composition, poetry, translation of plays, conversation.

Second Year. Grammatical drill, including elements of syntax and the use of the subjunctive. Reading of easy literature of Schiller, Lessing, etc. Poetry, selections from standard writers. Composition, vocabulary drill, conversation.

HISTORY

In all history courses the study of the text book is supplemented by collateral reading and the preparation of outlines, notes, maps, and papers relating to the subject, the amount of this work gradually increasing from year to year. The Academy possesses a fair working library for the study of this subject.

Ancient History. (a) Greece and the East, with particular emphasis upon Greek history and civilization from the fifth to the second century B. C. (b) Rome and the West, to the time of Charlemagne; special attention is directed to the period

from the conquest of Italy to the establishment of Christianity.

Mediaeval and Modern History. (a) Mediaeval Europe from Charlemagne's empire to the Reformation, with special emphasis upon Mediaeval institutions and the struggle between the Papacy and the Empire. (b) Modern Europe from the Reformation to the twentieth century; about half the time is devoted to the period from the French Revolution to the unification of Germany.

American History and Civics. (a) Colonial America to the establishment of the government under the Constitution. (b) History and Government of the United States under the Constitution.

MATHEMATICS

Elementary Algebra. First Year. The fundamental laws of algebra, the methods of factoring, with suitable applications, fractions, the solution of simple equations, simultaneous equations of the first degree, and practice with problems involving two or more unknown numbers.

Second Year, first semester. Involution and evolution, the theory of exponents, radicals, extensive drill in the solution of quadratic equations and simultaneous equations, the principles of series and the binomial theorem.

Plane Geometry. The usual theories and constructions of plane geometry, the properties of regular polygons, their construction, perimeters and

areas, and the application of principles to original problems and construction. One year.

Solid Geometry. The fundamental propositions of solid and spherical geometry, mensuration of surfaces and solids, original exercises. One semester.

Advanced Arithmetic. An advanced course in practical arithmetic. Special stress will be laid upon the principles, and practical work with common fractions, decimal fractions, compound numbers, cancellation, ratio and proportion, and problems involving percentage. One semester.

SCIENCE

Physical Geography. This subject is designed to form an introduction to the scientific course by teaching a few elementary principles which affect man's life on the earth. Notebook work is an important part of the course; it includes a record of weather observations, of simple mineralogical experiments, and of topographical map study. Field trips illustrate the subjects of land forms and the ocean; pictures are used in the description of phenomena not accessible for observation.

Botany. A full year's work of eight periods per week on the general morphology and field work. Plants are studied to be explained and not simply to be classified. The student is encouraged to ask and determine the why and wherefore of all subject matter under his notice. Each student is required to keep a note book containing accurate drawings, observations and conclusions. Bergen's Elements

of Botany and Osterhout's Experiments are used as guides.

Chemistry. A course in general chemistry with laboratory experiments performed by the individual student. Note books are required and each student is expected to keep a neat record of his work. Written tests are given from time to time. The work is represented by that given in Newell's Descriptive Chemistry and Laboratory Manual. First semester, metals; second semester, non-metals. Five periods per week through the year, two double for laboratory alternating with three single.

Physics. This course covers the elements of mechanics, heat, sound, light, electricity and magnetism. A wide range of phenomena is presented and the fundamental laws and principles are thoroughly studied in laboratory and class room. Each student keeps a neat and well-written note book containing the observations and results of his experiments and such individual discussions and conclusions as are required to explain properly what has been obtained. The student is expected to think independently, logically and conclusively, and to express himself with accuracy. Some sound knowledge of geometry and algebra, as well as of arithmetic, is necessary to the proper comprehension of the quantitative relations in physics. The work is made as concrete and practical as possible. Numerous problems are given requiring the student to reason carefully, to think vigorously, and to apply knowledge gained from laboratory, demonstration, lecture, text, and daily experience.

PHYSICAL TRAINING

The same facilities are offered to students of the Academy as to those of the College. Physical examinations are given, and as this is the formative period, special care is taken that all exercises shall be such as will insure a strong foundation for the physical well-being. The work with the first two classes is of a simple elementary nature. Special attention is given to simple drills, marching, running, etc., and to games. Only very light apparatus work is undertaken. That required of the upper classes is more advanced, being of such a nature as will prepare them for the work to be done in the collegiate department. The young ladies have the same privileges in the use of the enclosed court for tennis, basket ball, and volley ball as the young ladies of the College. Required of all Academy students, two periods a week through the year.

GENERAL
INFORMATION

General Information

REGISTRATION and COLLEGE CREDITS

Registration. On the appointed registration days at the opening of each semester, each student must obtain a registration card at the Registrar's office. This card, properly filled out, must be filed with the Registrar not later than the first Friday of the semester. Students failing to register before that time will pay a registration fee of two dollars. The tuition fee must be paid or its payment arranged for with the Business Manager at the time of registration. A certificate of moral character is required of each applicant for admission.

Enrollment in Classes. A student desiring to enter any class must present to the instructor a certificate of registration for that class. No student will receive college credit for any course for which he has not duly registered.

Change of Studies. Students desiring to change studies after the opening of the semester must present to the classification committee a written petition not later than one month after the beginning of the semester.

Change from one Group to Another. Students

desiring to change from one group to another may do so with the approval of the departments concerned and with the permission of the classification committee, ordinarily not later than the beginning of the Junior year.

Amount of Work. Nineteen unit-hours for Freshmen and Sophomores, and seventeen for Juniors and Seniors constitute the maximum amount of work for which a student is permitted to register. Twelve unit-hours constitute the minimum amount of work for which a student may register. A student incurring a condition or failure will be limited to fifteen unit-hours during the semester following.

Conditions and Failures. Failure in a course is incurred by any student whose work ranks below sixty per cent. A student will be required to re-register in any subject in which he has failed before he can receive credit for that subject.

A condition is incurred by any student whose work ranks between sixty and seventy per cent. A condition may also be incurred by absence from an examination or by failure to complete any part of the work of the course. A condition must be removed within one year, under the direction of the instructor; otherwise the condition will be considered a failure.

FEES AND EXPENSES

Tuition and Fees. The fee for tuition in both College and Academy is thirty-five dollars a semester, payable in advance. This does not include special laboratory fees, which are as follows: Chem-

istry, five dollars a semester; physics, two dollars; biology, three dollars. A fee of five dollars is required of all students for athletics. The College graduation fee is five dollars; the Academy graduation fee is two dollars.

Living Expenses. The cost of living at the Hall for young women, including board, room, light, and heat, varies from twenty to twenty-five dollars per month. The young women's Hall was opened in September, 1906. It provides a comfortable and pleasant home for the young women of the College and the Academy. Application for rooms should be addressed to the Registrar.

A system of registered lodgings and boarding places, to be inaugurated with the opening of the school year in September, 1907, will provide places of residence for the students at a cost varying from eighteen to twenty-five dollars per month. An Information Bureau conducted by the Christian Associations will provide new students with a complete list of approved rooms and boarding places.

The necessary expenses of the student range from \$275 to \$400.

Students who desire to earn their expenses while attending the College should register with the Employment Bureau conducted by the Christian Associations. Opportunities for self support among the students are somewhat limited. The number of students who earn their entire expenses is comparatively small.

ATTENDANCE

The College requires of all students regular attendance at the chapel service and at all the classes to which they belong. Students exceeding the limit of absences allowed in any class are given the opportunity of making up the work missed, by taking a special examination. Repeated absences above the limit will result in notification of parents or guardians, or, later, in suspension. A copy of the rules for attendance may be obtained from the Dean.

REGULATIONS GOVERNING SOCIAL LIFE

With the opening of the school year in September, 1907, the College will provide places of residence for the students by means of a system of registered lodgings and boarding places. All students must room in places approved by the Faculty, rooms being designated on the registration card and changed only with permission. Students are required to keep reasonable hours and to conduct themselves with propriety at all times. A copy of the rules governing the social life of the College may be obtained from the Dean.

SCHOLARSHIPS

There are nine scholarships, endowed respectively by

Immanuel Presbyterian Church, Los Angeles, Cal.

Presbyterian Church, Glendale, Cal.
Presbyterian Church, Santa Ana, Cal.
Presbyterian Church, Tropico, Cal.
Mrs. Mary A. Shipman.
Mr. J. I. Parsons.
Rev. Francis M. Dimmick.
Mrs. Rhoda N. Hunter and Miss R. N. Files.
Mardy Andrews Clark (endowed by her daughters).
Misses Schaiffer.

The person to receive the benefit of a scholarship may be designated by the donor or by the Board of Trustees. The student to whom the scholarship is assigned receives free tuition.

PRIZES

Prizes in Surveying The Adolf Frese Optical Company offer as a prize a \$25 set of drawing instruments. The prize will be awarded each year to that member of the surveying class who produces the best set of papers. The papers must contain field notes, computations, and plots drawn to a scale, from surveying work actually done.

Prizes in Geology and Botany. Rev. Dr. Gage of Highland Park offers a prize for the best geological or mineralogical collection made by a student of the College, if the collection shall be a satisfactory one; and another prize of equal value, subject to the same condition, for the best botanical collection.

Academy Declamation Prize. During the year the Rev. Dr. J. A. Gordon offered a prize of ten

dollars for work in declamation in the Academy. This was divided into a first and second prize, the first prize being won by Miss Helen Eaton, the second by Mr. Lyle McKenney.

ORATORICAL AND DEBATING CONTESTS

Intercollegiate Oratorical Contest. An oratorical contest between the colleges of Southern California is held annually. The preliminary contest at Occidental College is in charge of the students' Oratorical Association. The winner in this contest receives a prize, and represents the College in the Intercollegiate Contest between the University of Southern California, Pomona College, and Occidental College. In the home contest, April 19, 1907, the first prize was won by Mr. Clarence A. Spaulding. The second prize was won by Mr. J. W. Beard.

Oratorical Contest of the Prohibition League. Each year an oratorical contest is held by the students' Prohibition League, which is a branch of the Intercollegiate Prohibition Association. The subjects discussed are connected with the work of temperance reform. In the local contest in February, 1907, Mr. Wm. E. Roberts won the first prize, and Mr. J. Merle Smith, the second prize. Mr. Roberts again secured first place in the intercollegiate contest of Southern California, and will represent Southern California in the interstate contest.

Interscholastic Oratorical Association. The

Academy is a member of the Interscholastic Oratorical Association. At the home contest held in March, 1907, the honor of representing the Academy at the interscholastic contest was awarded to Mr. Christopher Gaskell. The second honors were given to Miss Beth Cist.

Debating League of Southern California. The Academy is also a member of the Debating League of Southern California. Mr. August F. Ballbach and Mr. Earl Haney represented the Academy in the debates with Downey High School and with Los Angeles High School. Mr. Lyle Grainger and Miss Merle Prewitt represented the Academy in the debate with Santa Ana High School.

PHYSICAL TRAINING AND ATHLETICS

This department has under its care the general health of the students, and the thorough, systematic development of their physical well being. Its purpose is to check abnormal tendencies, and to promote the health of the students, to develop ready physical control, and to form correct habits of carriage and action. Each student upon entrance receives a physical examination, which forms the basis for his general development, or for prescribed work where this is needed. Special instruction may be arranged for by any who desire individual corrective work, or by those who are preparing to teach physical training.

The Gymnasium affords ample room for all kinds of indoor exercise. It is equipped with modern apparatus necessary for the best development of the

physical man. Adjacent to it are dressing rooms supplied with lockers and shower baths with hot and cold water.

A large athletic field adjoining the men's dressing rooms is admirably adapted to the out-door sports of track, base ball, foot ball, and basket ball. An inclosed court adjoining the women's dressing rooms is used especially for the young women's athletic sports, which consist of basket ball, tennis, and volley ball.

A number of well kept tennis courts are also located on the campus, and are at the disposal of all students.

The athletic interests of the College are under the care of the Associated Student Body, with the co-operation of the Faculty Committee on Athletics. This supervision extends to base ball, foot ball, track and field sports, and basket ball. The Faculty requires of all athletes a high standard of scholarship. Such regulations are in force as are required to secure the best results, physical and moral.

STUDENT ORGANIZATIONS

The Associated Student Body. The purpose of this organization is to control all student enterprises. All Occidental students are eligible to membership. At its organization, the Associated Student Body absorbed the Athletic Association, the Oratorical Association, and the Occidental Publishing Company. These enterprises are now under the direct control of a general manager, and under the general control of an Executive Committee, which

is composed of the officers of the Association and of one representative for each of the following interests: Athletics, Oratory, Student Publications, the Academy, the Alumni, and the Faculty.

The receipts of the Associated Student Body are from games, benefits, dues, etc. A special athletic fee of \$2.50 each semester is charged each student by the College, at the request of the students, for the maintenance of physical training work, coaching, etc.

All expenditures must be authorized by the Executive Committee; and every month a full report of all receipts and expenditures, audited by the faculty representative on the Executive Committee, is published.

Christian Associations. The Young Men's and the Young Women's Christian Association are both represented by strong organizations, being supported by a large majority of the students. The weekly meetings of the Associations are largely attended. Classes for systematic Bible study meet regularly.

Interest in missions is very strong, the Student Volunteer movement being well represented in both Associations. The Y. M. C. A. is at present assisting in the work of a former student, now a missionary in China.

Each year the Y. M. C. A. sends a delegation to the state conference at Pacific Grove, and the Y. W. C. A. a delegation to Capitola.

An important feature of the work of the Associations is the Student Employment Bureau, which is

conducted for the benefit of those desiring to earn their expenses during the College year. An Information Bureau is also conducted by the Associations for the assistance of new students at the opening of the college year.

Literary Societies. The students of the College support three active literary societies: the Stevenson and the Lowell, composed of young men, and the Laurean Literary Society, composed of young women. These societies hold weekly meetings for debating and other literary work.

The Academy supports two literary societies. The Clio society is organized for the improvement of its members in literary work. Its membership consists of both boys and girls. The Moore Literary Society is an active society composed of boys only, and gives especial attention to debating. Both societies hold weekly meetings.

Glee Club. A glee club has been added this year to the student organizations. Both College and Academy men are eligible. Members are chosen by competitive trial. The glee club participated throughout the year in various College entertainments, made a tour of Southern California during the spring vacation, and closed a successful season with a home concert. Besides affording valuable drill in music, the club contributes in no small degree to the social life of its members and of the College in general.

STUDENT PUBLICATIONS

The Occidental, the College newspaper, appears twice a month. It is edited and managed by students of the College annually elected from the student body. An annual, La Encina, is published by the Junior class during Commencement week. A handbook of information is issued at the beginning of each year by the Y. M. C. A.

FORM OF BEQUEST

Those intending to devise property to Occidental College are requested to use the following form: "I hereby give, devise and bequeath unto the Occidental College of Los Angeles, State of California, the sum of..... Dollars."

For property other than money the form should be correspondingly varied.

Executive Committee

OF THE

Associated Student Body

Clarence A. Spaulding	President
Fairy A. Means	Vice President
Abigail L. Lane	Secretary
Will E. Roberts	Treasurer
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J. Merle Smith	Oratorical Representative
W. R. Crane	Athletic Representative
Edmund W. Pugh	Academy Representative
Robert G. Clelland	The Occidental Representative
Clyde E. Wolfe	Alumni Representative

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THE

Alumni Association

President.....Thomas H. Clelland
Vice President Amy P. Gordon
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ALUMNI

1893.

Mrs. F. R. Bear (née Bell).....Tropico, Cal.
Mrs. Thos. Coyle (née Thompson), Princeton, N. J.

1894.

Donald K. Cameron, B. L.....Baltimore, Md.
H. Percy Dilworth, B. L.....Sierra Madre, Cal.
Mrs. Andrew N. Jung, A. B. (née Roberts)..
.....Los Angeles, Cal.

1895.

Alphonso Bell, B. A.....Los Angeles, Cal.
Rev. Donald M. Brookman, B. A.....Hanford, Cal.
Lesley E. Lynn, B. A.....Greytown, Nicaragua
William E. Parker, B. A.....Tucson, Ariz.

1896.

George Byram, B. S.....Glendale, Cal.
Walter V. E. Thompson, B. S...Los Angeles, Cal.

1897.

Helen Harris, B.S. Chicago, Ill.
Pedro Recio, B. A. Chihuahua, Mexico

1898.

Rev. Edward H. Miller, B. A. Seoul, Korea

1900.

Amy P. Gordon, B. L.....Highland Park, Cal.
Grace Marie Lowder, B. A.....Los Angeles, Cal.
Alfred Solomon, B. A.....Berkeley, Cal.

Rev. Dwight C. Chapin, B. A...Paoting Fu, China
Isabel Crowell, B. L.....Alhambra, Cal.
Harry C. Dane, B. S.....Los Angeles, Cal.
Mrs. Silas Johnson, B. L. (née Mosher).....
.....Batanza, Africa
Mrs. Mabel Patty Ogden, B. L. (née Patty)..
.....Redlands, Cal.
Mrs. Dorothea E. Potter, B. L. (née Lewis)..
.....Oakland, Cal.

Rev. Thomas H. Cleland, B. A. Highland Park, Cal.
Helen Howe, B. S. Oxnard, Cal.
Fred H. Schouer, B. L. Santa Barbara, Cal.
Edward Harry Solomon, B. A. . . . Los Angeles, Cal.

Arthur W. Buell, B. S., M. D..New York City, N. Y.
Lona Gorham, B. A. Santa Barbara, Cal.
Augustus Roy Thompson, B. S....Piogrande, Cal.

Percey Bailey Goodell, B. S. Pasadena, Cal.
Daniel Stewart Hammack, B. A.. Los Angeles, Cal.
Margaret Sarah Herskovitz, B. L., Los Angeles, Cal.
John Robinson Jeffers, B. A. Los Angeles, Cal.
Bertha James, B. L. Pasadena, Cal.
Irwin McKee, B. A. Los Angeles, Cal.
Eleanor Estelle McClung, B. L. . . . Los Angeles, Cal.
Clara Florence Meader, B. A. Pasadena, Cal.
Lelia Wiatt Quinby, B. L. Los Angeles, Cal.
Julia Winn, B. L. Kanazawa, Japan
George Hinsdale Winn, B. A. Omaha, Neb.

1906.

Edwin Hodge Crabtree, B. A. Pasadena, Cal.
Edna Dell Cumberland, B. L. Los Angeles, Cal.
Genevieve M. Cumberland, B. L. . . .Los Angeles, Cal.
Ernest John Cummings, B. A. Carpenteria, Cal.
Rebecca Pearl Ellis, B. L. Whittier, Cal.
Margaret Gordon Grant, B. A. . . .Los Angeles, Cal.
John Percival Hagerman, B. A. . . .Lawrence, Kan.
Philip Benjamin Kennedy, B. L. Beloit, Wis.
Sidney McKee, B. L. San Anselmo, Cal.
James McMichael, B. A. Winnebago, Ill.
Carl Wallace Petty, B. L. Los Angeles, Cal.
Edith Catherine Powell, B. L. Azusa, Cal.
George Nye Steiger, B. A. Shanghai, China
Mattie Ethelyn Wakefield, B. S. Pasadena, Cal.
Frances Grace Webster, B. A. Pasadena, Cal.

Register of Students

C DENOTES CLASSICAL COURSE; L, LITERARY; S, SCIENTIFIC

COLLEGE

POST GRADUATE

Clyde Lynn Earl Wolfe, B. S. Pasadena

SENIORS

Beal, Frank Peer (L).....Inglewood
Beard, John Wesley (L).....Sioux City, Ia.
Blee, Robert Henry (S).....Santa Ana
Brooke, Vera Howard (C).....Los Angeles
Cleland, Robert Glass (C).....Long Beach
Cleveland, Charles Herbert (L).....Long Beach
Clever, Howard (S).....Fullerton
Daniel, Mamie Katherine (L).....Los Angeles
Dukes, Harry Sloan (L).....Los Angeles
Field, Bessie Louise (L).....Los Angeles
Fulton, Theodore (L).....Los Angeles
Gordon, Frances Wallace (L).....Los Angeles
Hopkins, Marie Alden (C).....Fullerton
Horton, Elizabeth Anne (L).....Pasadena
Lane, Abigail Lucinda (L).....Ames, Oklahoma
McGaugh, Laura Matilda (L).....Rivera
McKee, Anna Montella (C).....Los Angeles
McKee, Samuel Clark (C).....Los Angeles

Means, Fairy Abiah (L).....Los Angeles
 Merrill, Lilian Maria (L) Los Angeles
 Mordy, Ysabel (L).....Laguna, N. M.
 Muratt, Maud Imogene (C).....Los Angeles
 Pope, Bessie May (C).....Los Angeles
 Snyder, Harriet Alice (L).....Pasadena
 Spaulding, Clarence Arthur (L).....Los Angeles

JUNIORS

Bachtell, Ray William (L).....Medina, Ohio
 Berry, John Clement (C).....Los Angeles
 Boal, Bertha (L).....Los Angeles
 Brown, Nino (L).....Los Angeles
 Bubach, Myrtle Minnie (L).....Pasadena
 Buck, Bessie Marie (C).....Los Angeles
 Burt, Watson Beebe (C).....South Pasadena
 Chapin, Edward Dwight (L).....Los Angeles
 Crane, Walter Raymond (S).....Santa Susana
 Darling, Mae Alice (C).....Pasadena
 Darling, Katherine Maud (C).....Pasadena
 Demaree, Carey (L) Orosi
 Gall, Alice Margaret (C).....Santa Ana
 Gordon, James Hazen (S).....Bostonia
 Harris, Annie Louise (L) Ione
 Hoogestraat, William Otto (S) Arcadia, Ia.
 Kughen, Flora Elizabeth (L).....Los Angeles
 List, Charles Wolfe (L) Los Angeles
 Luark, Eva Grissella (L).....Watsonville
 McKean, Marla Faye (L).....Santa Ana
 Merrill, David Bruce (L).....Los Angeles
 Morrison, Clarence Eugene (C).....Prospect Park
 Paul, Arthur Gordon (L).....Los Angeles

Pierce, Mary Frances (L).....	Pomona
Raney, Harry Blackburn (L).....	Los Angeles
Smith, James Merle (L).....	Santa Ana
Spring, Arthur Logan (S).....	Los Angeles
Thomas, Mary Emma (C).....	Pasadena

SOPHOMORES

Amidon, Marion La Vergne (L) ..	Painesville, Ohio
Annin, Harriet Louise (L).....	Los Angeles
Bartram, Clara Serena (L)	Los Angeles
Blee, Clarence Earl (S).....	Los Angeles
Blee, Harry Harmon (S).....	Santa Ana
Chapman, Paul Garthwright (C)	Norfolk, Va.
Clark, Fay Goodcill (S).....	San Bernardino
Conrad, George Francis (C).....	San Bernardino
Davis, Anna Beulah (L).....	El Modena
Elliott, Paul Clinton (L).....	Long Beach
Gage, Harriet Hardin (L).....	Los Angeles
Guinn, Edna Marquis (L).....	Los Angeles
Hanna, Anna Belle (L).....	Los Angeles
Haskell, Robert Mason (S).....	Redlands
Hillis, Earl Douglass (C).....	Riverside
Hodge, Harry Hallam (S).....	Rialto
*Hodgson, Fred Monroe (S).....	Los Angeles
Hoogestraat, Christine Vive (L)	Arcadia, Ia.
Holley, William Logan (C).....	Los Angeles
Johnson, John Cherry (S).....	San Jose
Knudson, Maude Eleanor (C).....	Los Angeles
Lee, Ella (L).....	San Jose
Lee, Etta (L).....	San Jose
Lodwick, Leona (I.).....	Los Angeles

*Deceased.

McKalip, Hannah Lois C.	Los Angeles
Marshall, Ivey (L)	Phoenix, Arizona
Morrell, Amy (L)	Los Angeles
Nilson, George Ronald (S)	Mt. Pleasant, Utah
Norton, Susie Ida (L)	Monrovia
Patterson, Jessie Elisabeth (L)	Glendale
Phillips, Leah (L)	Los Angeles
Popenoe, Paul Bowman (L)	Los Angeles
Proctor, Henry, Jr. (S)	Santa Paula
Rankin, Herbert Palmer (S)	Santa Ana
Rice, Marie Luella (L)	Phoenix, Arizona
Rush, Frank Neill (S)	Alhambra
Sharp, Homer (S)	Long Beach
Smart, Janet Eliza (L)	Santa Ana
Strobridge, Eloise (L)	Los Angeles
Thacker, Roy Herbert (S)	Lordsburg
Thomas, Samuel Pierce (S)	Los Angeles
Thomas, Harry Bryson (C)	Los Angeles
Thomson, Henry Lyon (C)	Los Angeles
Von Schrilitz, Miles (L)	Santa Ana
Weller, Earle Vonard (C)	Los Angeles
Wendling, Bessie Lee (C)	Los Angeles
Whitcomb, Grace Elinor (L)	Los Angeles

FRESHMEN

Bailey, Nellie Mary (L)	Rialto
Bathgate, Violet May (L)	Orange
Bercovitz, Nathaniel (S)	Los Angeles
Blondeau, Louise Elizabeth (L)	Hollywood
Bond, Lillard Ray (L)	Santa Paula
Bowen, Clarence Winthrop (S)	South Pasadena
Brenchaud, Miriam Ryrie (C)	Los Angeles

Brown, Mabel Grace (L).....	Los Angeles
Byers, Bertha Viola (S).....	Pasadena
Church, Max Albert (L).....	Los Angeles
Clark, Flora May (C).....	Fallbrook
Crawford, Julia Etta (L).....	Tustin
Cumberland, Esther Claire (S).....	Los Angeles
Davenport, Blanch Louise (L).....	Tropico
Deardoff, Annetta (L).....	Santa Ana
Dennen, Ruth Mildred (L).....	Los Angeles
Dingman, Beulah Edna (L).....	Monrovia
Douthitt, Edna Owen (L)	Los Angeles
Ellis, Mary Edith (L).....	Los Angeles
Gardner, Alva Lucia (L).....	South Pasadena
Garth, John Goodall (L).....	Los Angeles
Guinn, Howard James (L).....	Los Angeles
Harris, Ruth Elie (L).....	Redlands
Heath, Sarah (L).....	Vineland
Huddleston, Jean (L).....	Los Angeles
Hughn, Mildred (L).....	Orange
Jepson, Gail Dubois (L).....	Pasadena
Johnson, Merle Truman (C).....	Los Angeles
Leighton, Edna May (L).....	Long Beach
Lowe, Mary Elizabeth (L).....	Los Angeles
McDougal, Jean M. (C).....	Monrovia
McCrary, Grace Edith (L).....	Atchison, Kan.
McKean, Della Rae (L).....	Santa Ana
Medlock, Velda Adams (L).....	Santa Ana
Merrill, Grayson (C).....	Los Angeles
Miller, Leah Claire (L).....	Los Angeles
Nunn, Evylenn (L).....	Santa Ana
Pellegrin, Harold (L).....	Los Angeles
Rice, Lulu Byrd (L).....	Phoenix, Arizona
Roberts, William Everett (L).....	San Francisco

Rohrer, Marjorie (L).....	Long Beach
Routzahn, Warren Willits (L)	Los Angeles
Rowley, Grace May (L).....	Santa Ana
Saviers, Olive Irene (L).....	Oxnard
Shull, Helen Clara (C).....	Los Angeles
Snively, Ruby Bernice (L).....	Oxnard
Straight, Alice Genoa (S).....	Lordsburg
Tedford, Nannie Louise (L).....	Santa Ana
Thomson, Williel, Jr. (C).....	Los Angeles
Thomson, Frederick Clifton (C).....	Los Angeles
Trowbridge, Verona Merry (L).....	Los Angeles
Waddell, Katharine Getty (L).....	Santa Ana
Wade, Benjamin Franklin (S).....	Long Beach
Walker, Hugh Kelso (C).....	Los Angeles
Weldon, Georgia May (C).....	Los Angeles
Wright, Gertrude Angeline (L).....	Los Angeles
Young, Arthur Nichols (C).....	Los Angeles

SPECIALS

Bird, Owen Robert	Los Angeles
Blee, Edna	Santa Ana
Bradt, Mabel Estelle	San Diego
Caldwell, Thomas Stuart	Woodbine
Cox, Herbert Thomas	Los Angeles
Flanders, Carrie Eleanor	Los Angeles
Frame, Roy DeWitt	Pasadena
Hall, Nellie Darling	Pasadena
Hillery, Horace Everett	Skagway, Alaska
Longacre, Hazel Irene	West Lafayette, Ind.
Lowe, Edna Frances	Los Angeles
Macy, Frank C.....	Aledo, Ill.
McDowell, Charles	Los Angeles

Mee, Charles Putnam	Los Angeles
Myers, James	Los Angeles
Ostram, Thomas Harold	Los Angeles
Park, Jue Shew	Oakland
Parker, Grace Mary	Santa Ana
Riley, Edgar Carlisle	Bullittsville, Ky.
Roan, Dannie E.	Seattle, Wash.
Ross, Garland Chester	Santa Ana
Roth, Edmund Calhoun	Los Angeles
Smith, Benjamin Rankin	Los Angeles
Stehman, John Miller	Pasadena
Stevenson, William Edward	Parkville, Mo.
Thacher, Walter Patterson	Los Angeles

ACADEMY

FOURTH YEAR

Annin, Roswell Howard (S).....	Los Angeles
Baer, George Van Dusen	Pasadena
Baskerville, Helen Lydia (C).....	Los Angeles
Cist, Beth (L).....	Los Angeles
Chamberlain, Edna Louisa (L).....	Los Angeles
Cochrane, Mildred Louise (L).....	Santa Monica
Edwards, Mary Bartee (L).....	Los Angeles
Faries, David Reid (C).....	Los Angeles
Fifield, Lucia Hazel (L).....	Los Angeles
Fountain, Rose Grover (L).....	Los Angeles
Gault, Frances Marion (L)	Los Angeles
Grant, Pearl Jewell (L).....	Los Angeles
Griffith, Helen Foresman (L).....	Los Angeles
Hartman, Bertha Belle (L).....	Los Angeles
McCoy, Grace (L).....	Beaumont
McLeod, Amy Helen (L).....	Los Angeles
Neil, William Doan (L)	Los Angeles
Patterson, Robert Covert (L).....	Los Angeles
Pugh, Edmund Wright (C).....	Los Angeles
Salisbury, Charles Scott (S).....	Los Angeles
Smith, Helen Rebecca (L).....	Los Angeles
Watson, Anna Lawrence (C).....	Los Angeles
Wilson, Edith Leontine (L).....	Los Angeles

THIRD YEAR

Ainslie, Charles Albert (S).....	Los Angeles
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Adams, Frances (L).....	Tustin
Brooke, Frederic Lionel (L).....	Los Angeles
Burke, Pascal Henry (L).....	Los Angeles
Canfield, Lois Eliza (L).....	Los Angeles
Cumberland, William Wilson (C)....	Los Angeles
Donaldson, Charlotte Victoria (L)....	Los Angeles
Eaton, Helen Josephine (L).....	Los Angeles
Fitzhugh, James McClung (S).....	Los Angeles
Foster, Louise Ernestine (L).....	Los Angeles
Galloway, Frank Kent (S).....	Hollywood
Gault, Charles Alexander (S).....	Los Angeles
Graves, Mabel Lydia (L).....	Los Angeles
Grainger, Kyle Irenos (L).....	Los Angeles
Hamilton, Bessie Edna (C).....	Los Angeles
Haney, Earl Webster (C).....	Los Angeles
Howard, William Webb (L).....	Los Angeles
Lowry, Paul (L)	Los Angeles
Ludwig, Ruth (S).....	Los Angeles
McClung, Katheryne Wilma (L).....	Los Angeles
McKee, Willa Josephine (L)	Los Angeles
McKenney, Lyle Rothwell (L).....	San Diego
Merrill, Grace Edith (L).....	Los Angeles
Meyer, Viola Caroline (L).....	Los Angeles
Moffatt, Alonzo Gray (L).....	Fruitvale
Montgomery, George Millage (C)....	Los Angeles
Muncy, Jessie Marguerite (L).....	Los Angeles
Noyes, Mary (L).....	Los Angeles
Prewitt, Merle Marie (L).....	Westminster
Seaton, Villa Marguerite (L).....	Riverside
Shepherd, Rae Frances (L)	Carpenteria
Shillito, Frances Beulah (L).....	Los Angeles
Short, Ruby Alden (L).....	Los Angeles
Sowden, Grace Evelyn (L)	Los Angeles

Swain, Edna Beatrice (L).....	Boise, Idaho
Thompson, Mary Belle (L).....	Los Angeles
Ward, Ethel (L).....	Los Angeles
Webb, George Harrison (L).....	Los Angeles
Wieman, Ernest Paul (L).....	Bakersfield
Wilson, Florence Mollie (L).....	Los Angeles

SECOND YEAR

Ayres, Henry Bryson (L).....	Los Angeles
Baker, Willis Croasdale (S).....	Los Angeles
Born, Mabel (L).....	Los Angeles
Bradbeer, Chester Boal (L).....	Los Angeles
Burns, Charlie (C).....	Rosendale, Mo.
Carnahan, Homer Paxton (L)	Covina
Carter, Irene Louise (L).....	Los Angeles
Carver, Kauffman Lowell (L).....	Los Angeles
Cavanah, Beatrice (L).....	Santa Ana
Crane, Clarence Ward (S).....	Los Angeles
Dane, Charles Marion (S).....	Los Angeles
Daniell, Margaret Lantz (L)	Los Angeles
Dieterle, Karl Lionel (S).....	South Pasadena
Drake, Helen Lois (S).....	Fullerton
Duey, Winifred Pearl (L).....	Los Angeles
Ewart, Irving Dodder (S).....	Los Angeles
Faulkner, Jessie Katherine (L).....	Los Angeles
Fish, Benjamin Harrison (S).....	Carpenteria
Frederickson, Aldyth (L).....	La Porte, Ind.
Frost, Hazel Adaline (L).....	Los Angeles
Gifford, Maurice Lodge (S).....	South Pasadena
Gordon, Fern Anna (L).....	Los Angeles
Hart, Elijah Cavins (L).....	Sacramento
Hayes, William Pierson (S).....	Los Angeles

Hayes, Oliver Bliss (C).....	Pasadena
Hewetson, Mary Ross (L).....	Los Angeles
Hightower, Mattie Nelle (L).....	Los Angeles
Hislop, Willa May (L).....	Los Angeles
Holderman, Nelson Miles (L).....	Tustin
Jeffrey, Robert Elliott (S).....	Los Angeles
Jones, Esther Mary (S).....	Los Angeles
Kellogg, Giles Vernon (C).....	Los Angeles
King, Olive Augusta (L).....	Tustin
Lee, Wing (L).....	Los Angeles
Leeson, Sadie Margaret (L).....	Pasadena
Lloyd, Mary Elizabeth Gertrude (L) ..	Los Angeles
Lowe, Marjorie (L).....	Los Angeles
Marshall, William Ernest (S)	Somis
Merrill, Marguerite (S).....	Los Angeles
Messer, Donald McCrea (L)	South Pasadena
Miller, Ruth Ellen (L).....	Los Angeles
Mitchell, Leora Stewart (L).....	Los Angeles
Moore, Helen Adele (L).....	Los Angeles
Morehouse, Hazel (L).....	Los Angeles
Myers, Neva Marguerite (S).....	Los Angeles
Newcomb, Edith Verna (L).....	Los Angeles
Padrick, Lucinda Lee(L).....	Los Angeles
Parker, Roy Montgomery (L)....	Knoxville, Tenn.
Piper, Ray Kathleen (L).....	Los Angeles
Popenoe, Frederick Wilson (S).....	Los Angeles
Randall, Violet Vivian (L).....	Los Angeles
Ritchey, Annie (L).....	Los Angeles
Rittenhouse, Pearle (S).....	Los Angeles
Sands, Raymond Arthur (L).....	Venice
Suzuki, Tomitaro (L).....	Yamanashi, Japan
Towne, Ruth Isabel (L).....	Los Angeles
Trask, George Harlan (S)	Los Angeles

Wagner, Zelma Marie (L).....	Los Angeles
Ward, Mabel (L).....	Los Angeles
Welch, William Buchtell (S).....	Los Angeles
Yashima, Chiuza (L).....	Los Angeles

FIRST YEAR

Arnold, Sara Ann (L).....	Los Angeles
Albrecht, Fred (L).....	Los Angeles
Boal, Louise Baxter (L).....	Los Angeles
Brooke, Helen Esmond (L).....	Los Angeles
Brown, Frank Ellsworth (L).....	Los Angeles
Brown, Carl Russell (S).....	Los Angeles
Brown, Fredrick Walton (L).....	Pasadena
Buhles, Edith Marguerite (L).....	Sierra Madre
Camp, Mildred Carry (L).....	Los Angeles
Camp, Paul Elden (L).....	Los Angeles
Campbell, Juliette Dumont (L).....	Los Angeles
Caskey, Lois Evarts (S).....	Los Angeles
Church, Leroy Dyer (L).....	Los Angeles
Clapp, James Norton (L).....	Pasadena
Clayton, John Heber (L).....	Long Beach
Clute, Walker Stillwell (S).....	Los Angeles
Collins, Elmer Clinton (L).....	Los Angeles
Dechman, Stanley (C)	Dinuba
Douthit, John William (L)	Los Angeles
Druskill, Clyde Newton (L).....	Los Angeles
Eldred, Fred Huestis (L).....	Los Angeles
Games, Elizabeth Julia (L)	Pasadena
Games, Frances Marion (L)	Pasadena
Gaskell, Christopher Harold (L)	Dehesa
Glasscock, Bernard Charles (L).....	Pasadena
Gordon, Jean (L).....	Los Angeles

Grainger, Reid (L).....	Santa Paula
Hatch, Gertrude Loring (L).....	Los Angeles
Houlding, Ernest William (C)...	Taining Fu, China
Hunt, Grace Cochrane (L).....	South Pasadena
Hunt, Harry Collins (L).....	South Pasadena
Ikenchi, Tanako (L).....	Los Angeles
Kellogg, Adeline (L).....	Los Angeles
King, Claud Lewis (L).....	Tustin
Lane, Herrick Johnson (C).....	Upland
Lane, Paul Vaux (C).....	Upland
Laurence, Lottie Edith (L).....	Los Angeles
Lientz, Oliver Kingsley (L).....	Los Angeles
Loy, Edgar Monfort (S).....	Long Beach
Mace, Winfred Hayes (L).....	South Pasadena
Mahan, John Ross (L)	Los Angeles
Manier, Fay (L)	Globe, Arizona
Mathews, Margaret Barbour (L).....	Los Angeles
McDowell, Alfred (L).....	Los Angeles
McNary, Hugh Allin (S).....	Los Angeles
Merriam, Robert Clizbe (C).....	Pasadena
Miller, Mabel Henrietta (L).....	Los Angeles
Morrison, DeWayne Gray (L).....	Los Angeles
Muncy, Ruth Elizabeth (L).....	Los Angeles
Neff, Dorothy Hawson (L).....	Phoenix, Arizona
Newcomb, Hope Marie (L).....	Los Angeles
Nichols, Dorothy Agnes (L).....	Los Angeles
Perkins, Laura (L).....	Los Angeles
Petrie, Anna Conger (L).....	Los Angeles
Pound, Stanley Edgar (L).....	Los Angeles
Prewitt, Raymond Cutton (L).....	Westminster
Renner, Dorothy (S).....	Los Angeles
Rohne, Robert Edmund (L).....	Pasadena
Rohrer, Donald Wentworth (L).....	Long Beach

Rolph, Helen Margaret (L)	Los Angeles
Row, Susan Amelia (L)	Los Angeles
Sands, Russell Lowell (L)	Venice
Slyfield, Evelyn (L)	Los Angeles
Smith, Hazel Jane (L)	Los Angeles
Sowden, Nellie Margaret (L)	Los Angeles
Stafford, Katherine (L)	Los Angeles
Sterling, Edward Ralph (S)	Alhambra
Stewart, Zolia Eunice (L)	Los Angeles
Thompson, Matilda Wilmine (L)	Los Angeles
Waddell, Joseph (L)	Los Angeles
Walker, Allie Rhea (L)	Los Angeles
Walker, Ethelyn Ross (L)	Los Angeles
White, Ethel Elsie (L)	Fillmore
Wilson, Clarence (L)	Long Beach
Young, Paul Thomas (C)	Los Angeles

SPECIALS

Archer, Allan Thurman	Los Angeles
Baker, Jeffie Loraine	Dallas, Texas
Ballbach, August Francis	South Pasadena
Bonner, Clark Joaquin	Los Angeles
Bradley, Thomas Alphon	Los Angeles
Buckingham, Tinta	Santa Ana
Campbell, Howard	Los Angeles
Corey, Adena Griffiths	Pasadena
Clopton, Pearl Eleanor	Long Beach
Clyne, Frank William	Los Angeles
Coberly, Joseph Edward	Los Angeles
Dryden, Rex James	Los Angeles
Farrar, Russell Bert	Los Angeles
Faucette, Will Clark	Los Angeles

Fulton, Rolland Sexton	Kanayawa, Japan
Gordon, William Kenneth	Los Angeles
Graetinger, Frieda	Ontario
Guiberson, Ramona Lorraine	Coalinga
Hardesty, Selina Irene	Tuscarora, Nev.
Hatch, Elizabeth Eunice	Los Angeles
Hayes, Marshall Crane	Santa Anita
Horton, Helen Bryant	Los Angeles
Kirkham, Reuben Thomas	Tropico
Martin, Marion Ruth	San Dimas
Mayo, Edward	Los Angeles
McClung, Samuel Hudson	Los Angeles
McKinney, Dwight	Los Angeles
Morse, Edwina Boardman	Pittsburg, Pa.
Muncy, Ralph Alexander	Los Angeles
Newman, John Franklin	Los Angeles
Ritter, Ruth May	Los Angeles
Underhill, Howard Townsend	Los Angeles
Wilson, Miriam Margaret	Long Beach
Wing, Harold Evan	Los Angeles
Yorba, Roberta Victoria	Skagway, Alaska
Youngken, Charles Thomas	Los Angeles

SCHOOL OF MUSIC

Adams, Frances	Tustin
Baker, Loraine Jessie	Dallas, Texas
Bath, Julia	Los Angeles
Bedford, Frances	Los Angeles
Bent, Florence	Los Angeles
Berry, John Clement	Los Angeles
Blee, Edna	Santa Ana
Born, Mabel	Los Angeles
Bradt, Mabel	San Diego
Brown, Mabel	Long Beach
Buhles, Edith Marguerite	Sierra Madre
Campbell, Florence	Long Beach
Chamberlin, Edith Louise	Los Angeles
Cleland, Robert Glass	Long Beach
Clopton, Pearle Eleanor	Long Beach
Cory, Adena	Pasadena
Couverley, Georgia	Los Angeles
Crane, Edna Myrtle	Los Angeles
Crinklan, Elizabeth	Los Angeles
Darling, Mae Alice	Pasadena
Dennen, Ruth	Los Angeles
Elliott, Paul	Long Beach
Faulkner, Katherine	Los Angeles
Fifield, Hazel	Los Angeles
Flippen, Janie Jefferson	Orange
Frame, Roy DeWitt	Pasadena
Fuller, Ethel	Los Angeles

Gleason, Pearl	Los Angeles
Gordon, Frances Wallace	Los Angeles
Graettinger, Frieda	Ontario
Graves, Mabel Lydia	Los Angeles
Green, Ethel	Los Angeles
Grier, Mrs. Maud	Los Angeles
Hale, Carrie Frances	Los Angeles
Hall, Nellie	Pasadena
Hare, Elizabeth	Eagle Rock Valley
Hatch, Elizabeth Eunice	Los Angeles
Hillis, Laura	South Pasadena
Hillis, Ola	South Pasadena
Hocker, Mabel	Los Angeles
Hogan, Olive	Los Angeles
Hoogestraat, Christine Vive	Arcadia, Ia.
Horton, Elizabeth	Pasadena
Irvine, Alice	Los Angeles
Keller, Henry	Pasadena
Latimer, Anna Cornelia	Los Angeles
Leeson, Sadie Margaret	Pasadena
List, Charles Wolfe	Los Angeles
List, Ruth Eleanor	Los Angeles
Lock, Victor	Los Angeles
Lodwick, Leona	Los Angeles
Lowry, Draxy	Los Angeles
Loy, Edgar Monfort	Long Beach
McCoy, Grace	Beaumont
McCrary, Grace	Atchison, Kan.
Mead, Florence Seymour	Los Angeles
Medlock, Velda	Santa Ana
Merrill, David Bruce	Los Angeles
Merrill, Lillian Maria	Los Angeles
Merrill, Marguerite	Los Angeles

Minthorn, Maud	Los Angeles
Mitchell, Leora Stewart	Los Angeles
Morrell, Amy	Los Angeles
Morse, Edwina Boardman	Pittsburg, Pa.
Murphy, Edith Anna	Downey
Newman, John Franklin	Los Angeles
Nicolaides, Maud Frances	Los Angeles
Ostrom, Thomas Harold	Los Angeles
Palmer, Bertha	Upland
Palmer, Edith Marcia	Los Angeles
Parker, Roy	Los Angeles
Pierce, Mary Frances	Pomona
Pinkham, Charlotte	Los Angeles
Pinyan, Anna	Los Angeles
Pound, Stanley	Los Angeles
Prewitt, Merle	Westminster
Rench, Mary Myrtle	Glendora
Rice, Alta	Sierra Madre
Ritchey, Annie	Los Angeles
Ritter, Ruth May	Los Angeles
Saviers, Olive Irene	Oxnard
Seaton, Villa	Riverside
Seymour, Velma	Los Angeles
Shea, Alice	Los Angeles
Shepard, Frances Rae	Carpenteria
Smith, Helen Rebecca	Los Angeles
Spaulding, Clarence Arthur	Phoenix, Arizona
Stafford, Katherine	Los Angeles
Stancer, Zoe	Los Angeles
Stanton, Mary Hattie	El Monte
Stephens, Esther Claire	Los Angeles
Swain, Beatrice	Boise, Idaho
Towne, Ruth Isabel	Los Angeles

Ward, Mabel	Los Angeles
Watson, Anna	Los Angeles
White, Ethel Elsie	Fillmore
Wilde, Jean	Los Angeles
Wilson, Edith Leontine	Los Angeles
Wilson, Florence Mollie	Los Angeles
Wright, Gertrude	Los Angeles
Yorba, Roberta Victorine	Skagway, Alaska

Table of Contents

Academy	101
Admission to Academy	103
Admission to Freshman Class	29
Admission Subjects	30, 32
Advanced Courses	44
Advanced Standing (Academy)	103
Advanced Standing (College)	30
Alumni	132
Associated Student Body	126
Athletics	125
Attendance	122
Buildings	21
Calendar	3
Change of Studies	119
Christian Associations	127
College	27
Committees of the Faculty	15
Committees of the Trustees	9
Conditioned Entrance	29
Conditions and Failures	120
Courses of Study (Academy)	105
Courses of Study (College)	43
Departments of Instruction (Academy) :	
Bible	106
English	106

Latin	109
Greek	110
French	111
German	112
History	112
Mathematics	113
Science	114
Physical Training	116

Departments of Instruction (College):

Biblical Literature	55
Philosophy	58
Education	60
English	62
Oratory	65
Latin	65
Greek	68
French	72
German	73
Spanish	75
History	75
Economics and Sociology	77
Mathematics	80
Astronomy	83
Physics	83
Chemistry	86
Zoology	89
Botany	91
Geology	92
Mechanical Drawing	92
Physical Training	93

Events of the Year	17
--------------------------	----

Exec. Com. of the Associated Student Body....	130
Expenses	121
Faculty and Instructors	10
Form of Bequest	129
General Information	119
Glee Club	128
Graduation (Academy)	104
Graduation (College)	43
Grounds	21
Groups (Synopsis of)	46
Laboratories and Apparatus	23
Library	22
Literary Societies	128
Material Equipment	21
Maximum and Minimum of Hours	120
Occidental College	5
Officers of Administration	14
Officers of the Alumni Association	131
Officers of the Trustees	9
Oratorical and Debating Contests	124
Physical Training	125
Pre-Medical Course	52
Prizes	123
Register of Students	135
Registration	119
Schedules	96-99
Scholarships	122
Social Life	122
Special Students	30
Student Organizations	126
Student Publications	129
Synopsis of Courses (Academy)	105

Synopsis of Groups (College)	46
Trustees	8
Tuition and Fees	120

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LOS ANGELES, CALIFORNIA

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CATALOGUE
OF
Occidental College
and Academy
1907-1908



ANNOUNCEMENT FOR 1908-1909

LOS ANGELES, CALIFORNIA

1908

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Calendar

1908

- May 1. Last day for submitting Senior thesis.
- June 1-5. Final examinations.
- June 5. Academy Class Day.
- June 7, 4 p.m. Vesper Service and Baccalaureate Sermon.
- June 8, 8 p.m. Academy Graduation Exercises.
- June 10. Class Day.
- June 11, 10.30 a.m. Annual Commencement of the College.
- Sept. 14 and 15. Examinations for admission and for removal of conditions. Registration of new students.
- Sept. 16, 10 a.m. First Semester begins.
- Oct. 15. Last day for reporting subject for Senior thesis.
- Nov. 26. Thanksgiving Day. No college exercises.
- Dec. 11. Prize Declamation Contest of the Academy.
- Dec. 18, 4 p.m. Christmas vacation begins.

1909

Jan. 5, 8 a.m.	Christmas vacation ends.
Jan. 21.	Day of Prayer for Colleges.
Jan. 25-29.	Mid-year examinations.
Jan. 29, 4 p.m.	First Semester ends.
Feb. 2, 10 a.m.	Second Semester begins.
Feb. 19.	Junior Night.
Apr. 2, 4 p.m.	Spring vacation begins.
Apr. 13, 8 a.m.	Spring vacation ends.
May 1.	Last day for submitting Senior thesis.
June 7-11.	Final examinations.
June 11.	Academy Class Day.
June 13, 4 p.m.	Vesper Service and Baccalaureate Sermon.
June 14, 8 p.m.	Academy Graduation Exercises.
June 15.	Class Day.
June 16, 10:30 a.m.	Annual Commencement of the College.

Occidental College

○ CCIDENTAL COLLEGE was founded April 20, 1887, by representative Presbyterians of Los Angeles and vicinity. It still remains under Presbyterian control. Four things are guaranteed to its patrons:

First, that the authority of God's word shall be recognized as paramount in all its teachings.

Second, that no sectarian influence shall be admitted within its walls.

Third, that standard, up-to-date courses shall be maintained in every department in which instruction is offered.

Fourth, that nothing shall be undertaken which can not be done well.

The object for which the College was founded, and to which its trustees and faculty stand committed, is the glory of God as seen in the development of young men and young women for lives of the highest usefulness. Such an aim calls for a faculty composed of Christian men and women, strong in scholarship and personality; a broad, well proportioned curriculum; and material equipment to correspond. Each of these demands, the trustees believe, is being successfully met at Occidental. Additions to the present investment in the shape of money, character, and talent will steadily continue. Progress, on safe lines, may be accepted as a part of the institution's settled policy.

Board of Trustees

Faculty and Instructors

Officers of Administration

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President.

College

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Dean of the College: Rutan Professor of Latin.

BLANCHE DeCLAIRBEAU WILSON,

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Director for Women.

JOHN L. GOHEEN, A. B.,

Physical Director for Men.

L. H. WESTCOTT,

Instructor in Mechanical Drawing.

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LOUIS AGASSIZ TEST, Ph. D.,

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CALVIN O. ESTERLY, Ph. D.,

Professor of Biology.

GEORGE F. COOK, Ph. D.,

Professor of Education: Assistant Professor of
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WILBUR A. FISKE, M. A.,

Professor of Geology: Assistant Professor of
Physics and Chemistry.

FRANCES ROSANNA FOOTE,

Librarian.

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Principal: Instructor in Bible.

ALICE R. MOORE, A. B.,
Instructor in English.

ANNA C. LATIMER, A. B.,
Instructor in Mathematics.

SAMUEL W. PETERSON, A. B.,
Instructor in History.

MARY W. McPEAK, A. B.,
Instructor in Latin and Greek.

CHARLES B. MOORE, M. A.,
Assistant Principal and Registrar: Instructor in
English.

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Physical Director for Women.

JOHN L. GOHEEN, A. B.,
Physical Director for Men.

MABELLE L. MORGAN, M. A.,
Instructor in Latin.

FREDERICK G. MILLER, M. A.,
Instructor in French and German.

SAMUEL H. ANDERSON, M. A.,
Instructor in Science.

PERCEY B. GOODELL, B. S.,
Instructor in Botany and Physiography.

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President.

WILLIAM D. WARD, Ph. D.,
Dean of the College.

ANNA PEARL COOPER, M. A.,
Dean of Women.

ERNEST E. ALLEN, M. A.,
Registrar of the College.

R. J. CASKEY, M. A.,
Principal of the Academy.

CHARLES B. MOORE, M. A.,
Assistant Principal and Registrar of the Academy.

FRANCES ROSANNA FOOTE,
Librarian.

WILBUR G. SMART,
Business Manager.

REV. CYRUS B. HATCH, M. A.,
Field Secretary.

VERONA M. TROWBRIDGE,
Secretary to the President.

Standing Committees of the Faculty

Admission and Classification—Professor Allen, Dean Ward, Dean Cooper, Professor Fiske, Professor Cook.

Athletics—Professor Fiske, Mr. Goheen, Professor Dickson, Professor Allen, Professor Esterley.

Catalogue and Curriculum—Dean Ward, Professor Stevenson, Professor Beals, Professor Archibald, Professor Allen.

Christian Work—Professor Handley, Professor Cunningham, Professor Cook, Professor Wilson, Mr. Westcott.

Grounds and Buildings—Professor Cook, Dean Cooper, Professor Test, Professor Behnke, Miss Foote.

Laboratories—Professor Beals, Professor Esterley, Professor Test, Professor Fiske, Professor Cook.

Library—Professor Behnke, Miss Foote, Professor Handley, Professor Cook, Professor Cunningham.

Public Exercises—Professor Archibald, Dean Cooper, Professor Wilson, Professor Test, Dean Ward.

Rules and Discipline—Dean Ward, Dean Cooper, Professor Cook, Professor Fiske, Professor Allen.

Schedule—Professor Allen, Dean Ward, Professor Wilson, Professor Beals, Professor Esterley.

Social Life—Dean Cooper, Professor Wilson, Professor Fiske, Professor Dickson, Professor Handley.

EVENTS OF THE YEAR

Some events of academic interest during the current year.

1907

- Oct. 4. Address, Rev. George Soltau, D. D., London, England. "Christ the Student."
- Oct. 6. First Vesper Service. Sermon by Professor Lorin A. Handley, M. A.
- Oct. 11. Address, Rev. Robert J. Burdette, D. D. "College Unity."
- Oct. 18. Lecture, Rev. Dana Bartlett, D. D. "Social Waste."
- Oct. 20. Vesper Service. Sermon by Mr. Joseph Ernest McAfee, Secretary Presbyterian Board of Home Missions, New York.
- Oct. 25. Lecture, Rev. Arthur S. Phelps, D. D. "Modern Greece."
- Oct. 31. First Observance of Sophomore Night, on the athletic field.
- Nov. 1. Address, Rev. B. S. Hayward, D. D. "Porto Rico."

- Nov. 4. Address, Rev. W. S. Holt, D. D., Pacific Coast Secretary, Presbyterian Board of Home Missions.
Address, Rev. Dwight E. Potter, Pacific Coast Secretary, Presbyterian Board of Foreign Missions.
- Nov. 8. Lecture, Rev. Dana Bartlett, D. D. "Immigration."
- Nov. 10. Vesper Service. Sermon by Rev. W. B. Gantz.
- Nov. 15. Pacific Coast Intercollegiate Oratorical Contest, Portland, Or. William E. Roberts, Occidental College, Representative of Southern California.
- Nov. 19. Address, Mr. E. A. K. Hackett, Ft. Wayne, Ind. "Business Principles."
- Nov. 20. Address, Rev. S. E. Wishard, D. D.
- Nov. 29. Lecture, Rev. Arthur S. Phelps, D. D. "Glimpses of Italy."
Address, President David Starr Jordan, Ph., D., Stanford University. "Athletic Abuses."
- Dec. 17. Address, Mr. Luther Burbank. "Growth."
- Dec. 19. Annual Pomona-Occidental Debate.

1908

- Jan. 10. Address, Rev. Lovett J. Murray, D. D., Secretary Board of Foreign Missions, New York. "India's Young Men."

- Jan. 10-11. Missionary Institute of the colleges of Southern California. Held in Occidental Chapel.
- Jan. 17. Address, Mr. A. J. Elliott, Secretary of the National Y. M. C. A. "True Life."
- Jan. 23. Day of Prayer for Colleges. Addresses by President Baer and Mr. William E. Roberts.
- Jan. 24. Public Reading, Mrs. Frederick G. Miller.
- Feb. 5. Address, Rev. Frank W. Bible, China. "China the Problem of the Twentieth Century."
- Feb. 7. Address, Hon. Frank G. Tyrrell. "The School the Servant of the State."
Greek Evening. Address by Miss Margaret Grant, A. B. "The Greek Art Collections of Europe."
- Feb. 11. Lecture, Dr. O. S. Barnum, M. D. "Recent Developments in Electrical Science."
- Feb. 14. Junior Night. "The Taming of the Shrew."
- Feb. 21. Address, Mrs. Robert J. Burdette. "What does it Cost?"
- Feb. 28. Address, Ex-President James W. Strong, Ph. D., Carleton College, Northfield, Minn.

- Mar. 7.** Address, Professor Herbert T. Archibald, Ph. D. "Our Debt to Greece."
- Mar. 13.** Address, Mr. George Trotter, Grand Rapids, Mich.
- Mar. 20.** "Mrs. Wiggs of the Cabbage Patch," presented by Fourth-Year Class of the Academy.
- Mar. 25.** Address, Mr. John R. Mott, M. A., International Secretary College Y. M. C. A.

MATERIAL EQUIPMENT

Grounds

THE campus consists of twenty-five acres located in Highland Park, in the northeastern part of Los Angeles, midway between the business center of that city and Pasadena. It is easy of access, being on one of the boulevards which connect the two cities and served by two lines of electric cars. On the other hand it is quite suburban in its surroundings, hemmed in as it is by verdure-clad hills and rendered free by its altitude from the smoke and dust of the city. Health and beauty of situation are enhanced by the presence of a cultured Christian community in which the different churches vie with each other in providing every religious and social advantage. About half the campus is at present occupied by buildings, drives, lawns, grounds for athletic sports, etc., the remainder having been but recently purchased to provide room for intended expansion.

Buildings

The principal College building, the Hall of Letters, is a brick structure, erected at a cost of \$70,000. It has three stories and a basement, with a frontage of 180 feet and a depth of 100 feet. It is occupied by the rooms of the executive officials and by lecture rooms for all departments except

Biology and Chemistry. It contains also the halls of the Christian Associations and of the Literary Societies, and an auditorium furnished with opera chairs and having a seating capacity of five hundred. Actual use has proved it to be admirably adapted to the requirements of an up-to-date, progressive school.

The Academy Building is an attractive example of classical architecture, with a spacious study hall and numerous apartments for office and class room work. The basement is fitted up as a gymnasium in which the various forms of in-door physical training are carried on.

The Stimson Library, erected by Mr. C. M. Stimson of Los Angeles at a cost of \$20,000, is one of the most beautiful library buildings on the Pacific Coast. The lower floor is at present used by the department of Biology. The main floor contains reading and reference rooms, librarian's office, stack room, and the usual facilities for efficient work.

In addition to the three main buildings, there are two smaller buildings which have been set apart for the use of the chemical laboratories.

Library

The Stimson Library contains several thousand volumes, including many valuable reference works. Large additions have been made the past year and still larger additions may be expected in the near future. Several of the department libraries are especially creditable, being well stocked with the latest and best literature in their particular lines.

Laboratories and Apparatus

The Biological laboratories are well equipped. Each student is provided with a compound microscope suitable for ordinary work, and there is opportunity for the use of oil immersion lenses. There is a full equipment of stains, reagents and microscopical accessories. A thorough course in technique can be fully provided for. The laboratory is in possession of several excellent microtomes, paraffine baths, and similar apparatus.

The Zoological collections have recently been largely increased by purchase. There is a good working collection of bird skins, and a number of good preparations of invertebrates. There is also a number of typical osteological preparations, including the human skeleton besides that of the horse and of various birds, and these make possible a wide range of comparison in vertebrate anatomy. The department has a manikin, which allows the student to compare, in a measure, the lower mammals with man.

The library is well equipped as far as important zoological works are concerned. It is believed that the student has access to every important work recently published.

In Botany, the apparatus designed by Professor Ganong for physiological and ecological work has been added the past year. The department owns an herbarium containing 1000 Pacific Coast plants which have been catalogued for ready reference. The botanical library, for which the College is prin-

cipally indebted to Rev. J. C. Nevin, Ph. D., LL. D., is especially valuable.

Mr. Gail Borden has loaned the department of Geology a rare and valuable collection of labeled minerals, valued at about \$4,000. The Dr. A. E. Foote collection of minerals recently purchased makes a good working series for determinate mineralogy. Considerable additions have also been made in apparatus for studying the physical properties of minerals, for blow-pipe analysis, and for effective work in the field.

The tertiary hills surrounding Highland Park present some interesting and excellent examples for field work in dynamic geology. Many lantern slides, illustrating geologic structures and changes, have been made in the new photographic laboratory. The various collections, accompanied by rocks and fossils, maps and models, greatly assist in gaining a proper conception of the laws of dynamical and historical geology.

The Chemical laboratories occupy, for the present, two small buildings on the edge of the campus. One of these buildings contains the laboratory for general chemistry and qualitative analysis, besides a well equipped supply room. In the other building is the laboratory for quantitative analysis and organic chemistry, and the weighing room, which is supplied with the analytical balances required for the work. Both laboratories are provided with modern desks, each with its own set of apparatus, so that the student may work independently. Extra apparatus may be obtained from the supply room

as needed. New apparatus and equipment are being added each year as the needs of the courses demand it.

The Physics Department now occupies six rooms in the Hall of Letters, and it is probable that, with the added equipment that is yet coming from domestic and foreign manufacturers, still another will be required next year. The apparatus added during the past two years is valued at more than \$5,000.

The equipment includes numerous pieces covering a wide range of phenomena and selected with great care by the head of the department, who recently spent several months traveling twelve thousand miles to inspect twenty-five of the best colleges, universities, and technical schools throughout the East and to visit all the leading domestic manufacturers of high-grade apparatus. The following list is not exhaustive, nor even approximately so, but is intended merely to show the grade of apparatus selected: double cylinder, motor-driven "Geryk" pump; ballistic and coincidence pendulums, comparator, cathetometer, Young's modulus and torsion apparatus, Alluard hygrometer, Michaelson interferometer (Gaertner); studentia calorimeter (Scientific Shop); improved Joly balance (Stoeltzing); Pulfrich refractometer (Fritz Köhler); saccharimeter (Schmidt and Haench); universal tangent galvanometer and earth inductor (Queen); station and standard ammeters and voltmeters (Weston); electrodyamometer (Siemens and Halske); universal vertical galvanometer (Keiser

and Schmidt); Thomson double bridge, Kohlrausch universal bridge, and ballistic galvanometer (Hartman and Braun); decade boxes, Wheatstone bridges, galvanometers and condensers (Leeds and Northrup); secohmmeter, quadrant electrometer, mechanical equivalent of heat (Pye); inductance standard (Nalder); standard resistances (Wolff). The department is particularly fortunate to have what is probably the largest static electric machine possessed by any American university. This, with the following and various other pieces, is the gift of Dr. O. S. Barnum of this city: Churcher rectifier and several transformers, Faradic and Galvanic cabinet, Wehnelt interrupter, twelve-inch induction coil, several motors, high frequency and wireless telegraphy apparatus, a full supply of Roentgen tubes capable of doing first-class X-ray work.

One of the most practical additions to the department is a shop well supplied with all sorts of wood-working tools, a buzz saw, and screw-cutting engine lathe. A fully equipped photographic laboratory also adds to the efficiency of the department.

The library includes, besides a good number of various books necessary to this department, the following magazines: Science Abstracts, School Science, Scientific American, Physical Review, and Philosophical Magazine.

The department of Mathematics is equipped with a reference library of 200 volumes, by the best authors, and covering every branch of mathematics. A ten-inch Newtonian reflecting telescope is already on the ground, and the expectation is that it will

soon be mounted in a suitable observatory. The department also has two sextants, transit, Y level, leveling rod, polar planimeter, slide rule, Thatcher's calculating machine, Crelle's calculating tables, a high-grade protractor, parallel rulers, celestial globe, planetarium, and a number of less important instruments.

COLLEGE

Requirements for Admission

Admission to the Freshman Class

Candidates for admission to the Freshman Class must be sixteen years of age and must be provided with testimonials of good moral character. Applicants not presenting certificates from approved high schools or academies will be required to take examinations in all subjects for which they seek admission credit.

Graduates of approved high schools or academies will be given credit for the subjects in which they are recommended. All credits are, however, subject to the test of the class room. Blanks for certificates will be furnished on application to the Registrar, and it is expected that all applicants for admission without examination will use them. To be admitted to full Freshman standing the candidate must present admission credits amounting to fifteen units of academy or high school work, the unit being understood to represent five recitations per week in one subject continued through one school year.

Admission Subjects

A few subjects which may be accepted are not named below. They are for the most part either variable in standard or so rarely presented that it is thought best not to include them in the published list. They will be considered on their merits when

presented. A detailed description of the subjects here named will be found on the following pages:

1. English, Elementary.....2 units
2. English, Advanced.....1 unit
3. English, Advanced.....1 unit
4. Algebra, Elementary.....1½ units
5. Algebra, Advanced.....½ unit
6. Plane Geometry.....1 unit
7. Solid Geometry.....½ unit
8. Plane Trigonometry.....½ unit
9. Ancient History.....1 unit
10. Mediaeval and Modern History.....1 unit
11. English History.....1 unit
12. History and Government of U. S....1 unit
13. Latin, Elementary.....2 units
14. Cicero and Latin Composition.....1 unit
15. Vergil and Latin Composition.....1 unit
16. Greek, Elementary.....2 units
17. Homer and Greek Composition.....1 unit
18. German, Elementary.....2 units
19. German, Intermediate.....1 unit
20. German, Advanced.....1 unit
21. French, Elementary.....2 units
22. French, Intermediate.....1 unit
23. French, Advanced.....1 unit
24. Spanish 2 units
25. Physics 1 unit
26. Chemistry 1 unit
27. Botany 1 unit
28. Zoology 1 unit
29. Physiology 1 unit
30. Physical Geography.....1 unit
31. General Science.....1 unit

Unconditioned Entrance

For unconditioned entrance, one of the following groups of admission subjects must be presented, together with sufficient electives to bring the total value up to fifteen units:

A.—1, 4, 6, 12, 13, 14, 15, 16, 25 or 26 or two other sciences.

B.—1, 4, 6, 12, 13 or 18 or 21, 25 or 26 or two other sciences.

C.—1, 4, 6, 7, 12, 13 or 18 or 21, 25, 26.

Group A should be presented by those seeking the degree of A. B., though subject 16 may be omitted where other equivalent credits are offered in its place.

Group C must be presented by those seeking the degree of B. S.

Conditioned Entrance

Candidates who are deficient in not more than one and one-half units of the required fifteen may be admitted as conditioned Freshmen; but all entrance conditions must be removed before any student may be ranked as a Junior.

Advanced Standing

Students from other institutions of recognized collegiate rank will be admitted to such standing as seems fair in the judgment of the Faculty. The application must be accompanied by a letter of

honorable dismissal, a catalogue of the institution granting it, an official statement of subjects completed, with the number of terms and the number of hours per week devoted to each subject, and a similar statement of entrance credits.

Students at Large and Special Students

No student is permitted to register for less than twelve units of work in any semester, save by a special vote of the Faculty. Subject to this provision, recommended graduates of approved preparatory schools presenting any fifteen units included in the above list of admission subjects may be admitted as students at large with the privilege of taking such courses as their preparation allows. Those whose preparation does not admit them to the status of students at large or of conditioned Freshmen may be admitted as special students, but only in case of age and maturity. Students at large and special students are subject to the same regulations as the others. They may become candidates for a degree at any time by meeting the usual entrance requirements. On withdrawing from the institution they will be granted certificates showing the work completed.

Description of Admission Subjects

1. English, Elementary. (2 units.)

(a) A practical knowledge of grammar, and of the elements of rhetoric, and the ability to write correct English.

(b) Literature for careful reading:

1907-11. Group I (two to be selected): Shakespeare's *As You Like It*, *Henry V*, *Julius Caesar*, *The Merchant of Venice*, *Twelfth Night*.

Group II (one to be selected): Bacon's *Essays*; Bunyan's *Pilgrim's Progress*, Part 1; 'The Sir Roger de Coverley Papers in the *Spectator*'; Franklin's *Autobiography*.

Group III (one to be selected): Chaucer's *Prologue*; Spenser's *Faerie Queene* (selections); Pope's *Rape of the Lock*; Goldsmith's *Deserted Village*; Palgrave's *Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (two to be selected): Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens' *Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V (two to be selected): Irving's *Sketch Book*; Lamb's *Essays of Elia*; DeQuincey's *Joan of Arc* and the *English Mail Coach*; Carlyle's *Heroes and Hero Worship*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

The work in literature in admission subjects 1 and 2 is based upon the Uniform Entrance Requirements in English. Books substituted must be equivalent in literary merit and similar in type to those omitted.

Group VI (two to be selected): Coleridge's *Ancient Mariner*; Scott's *Lady of the Lake*; Byron's *Mazeppa* and the *Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Launcelot and Elaine*, and *The Passing of Arthur*; Browning's *Poems* (selected).

2. **English, Advanced.** (1 unit) Literature for detailed study:

1907-11. Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Pensero*; Burke's *Speech on Conciliation with America*, or *Washington's Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

3. **English, Advanced.** (1 unit) Advanced composition, including training in the various forms of discourse: description, narrative, exposition, and argumentation.

4. **Algebra, Elementary.** (1½ units) The fundamental laws, laws of exponents, formulas of multiplication, binomial theorem with positive integral exponent, factoring, common divisors and multiples, radicals, simultaneous equations of the first degree, quadratic equations, theory of quadratic equations, the elementary presentation of roots, powers, series and logarithms.

5. Algebra, Advanced. ($\frac{1}{2}$ unit) Simultaneous quadratic equations and equations essentially quadratic; fractional exponents, fractional and irrational equations; roots and powers of polynomials; series; binomial theorem; logarithms; and the elements of the theory of equations.

6. Plane Geometry. (1 unit) The general properties of plane figures, the circle and the measure of angles, areas, regular polygons, and the measure of the circle; the usual demonstrated theorems and original propositions.

7. Solid Geometry. ($\frac{1}{2}$ unit) Relations of lines and planes to space; the properties of prisms, pyramids, cylinders, and cones; the sphere and spherical triangle; original propositions.

8. Plane Trigonometry. ($\frac{1}{2}$ unit) The development of the general formulae of elementary plane trigonometry; the theory and use of logarithms; the numerical solution of plane triangles and of trigonometrical problems in heights and distances.

9. Ancient History. (1 unit) A year's work in the history of the Eastern Nations, Greece, and Rome, to the establishment of Charlemagne's empire. In Grecian history special attention should be given to the period from the fifth to the second century B. C., and in Roman history to the period from the conquest of Italy to the establishment of Christianity. Outlines, maps, and papers on special topics should be prepared, and should be presented at the time of the examination.

10. Mediaeval and Modern History. (1 unit)

A year's work in European history from Charlemagne's time to the present. Special attention should be given to mediaeval institutions, the struggle between the empire and the Papacy, the Reformation, and the French Revolution. About one-fifth of the work should be put upon the nineteenth century. Outlines, maps, and papers upon special topics should be prepared, to be presented at the time of the examination.

11. English History. (1 unit) A year's work in the history and government of England. Maps, outlines, and special reports should be presented at the time of the examination.

12. History and Government of the United States. (1 unit) A year's study beyond the grammar school, with considerable work in outlines, papers, notes, and reports, to be presented at the time of the examination. The candidate for admission should have a good working knowledge of the Constitution of the United States, and should be familiar with the works of reference on American history found in good high school libraries.

13. Latin, Elementary. (2 units) Two years of daily exercises are necessary to complete this requirement. The first object to be sought is correct pronunciation, following which, and still more important, is an accurate knowledge of forms. The failure to attain this is responsible for most of the failure and drudgery of the Latin course. Four books of Caesar must be read in class, accompa-

nied by persistent drill in constructions and frequent translation from English into Latin of sentences based on the text. Occasional practice in sight reading is assumed. One result of this course should be a vocabulary, thoroughly learned, of twelve to fifteen hundred words. The substitution of other authors for a portion of the Caesar is admissible.

14. Cicero and Latin Composition. (1 unit) Six orations of Cicero are required, including the four against Catiline and the one in support of the Manilian Law. Work in constructions should be unremitting. The work in composition should be somewhat more advanced, involving greater attention to the orderly arrangement of the sentence and the joining of sentences into connected paragraphs. Sight reading, in the same author, should be given an increasingly important place, not merely for added facility in translation but for the purpose of discovering and correcting faulty habits of preparation. Time required, one year.

15. Vergil and Latin Composition. (1 unit) This subject calls for the reading and interpretation of the first six books of Vergil's Aeneid, together with daily or weekly exercises in prose composition based on the authors previously read. After three years devoted to the acquisition of the language, the study of Vergil should be approached with a literary rather than a purely linguistic purpose. To spend the fourth year labeling ablatives or classifying conditional sentences is to miss a rare opportunity for appropriating the best work of a great poet. Abil-

ity to read the hexameter metrically at sight is expected of students who have completed this course. The value of the course will be materially increased by the addition of sight reading either in the same author or in one of the easier prose writers.

16. Greek, Elementary. (2 units) The requirement includes a knowledge of prose forms and prose syntax, a good Xenophon vocabulary, and some knowledge of English derivatives. Forms and syntax are usually sufficiently drilled upon, but generally not enough attention is given to vocabulary and English derivatives. White's First Book, Xenophon's Anabasis I-IV, and Pearson's Composition, Parts I-II, represent the work to be covered.

17. Homer and Greek Composition. (1 unit) Homer's Iliad I-III and Pearson's Prose Composition are the minimum of preparation. In Homer, a knowledge of Homeric grammar and the prose equivalents of common poetical words, where there are such, and the ability to read Homer not only metrically but with expression, are essential. Some attention should also be given to character study and to Homeric life. In composition, the ability to do easy prose based on Xenophon is required.

18. German, Elementary. (2 units) This requirement covers two years of high school German. A thorough knowledge of the elements of German grammar is expected and the ability to translate ordinary German into English at sight or English into German. A fair knowledge of poetry and evidence of solid composition work is also required.

19. **German, Intermediate.** (1 unit) The ability to read at sight ordinary German prose or poetry, to translate easy English into German, to answer simple questions in German, and to give evidence of familiarity with the essentials of German grammar including particularly the rules concerning the declension of adjectives and nouns, the conjugation of verbs and word order. Amount of reading required, about 400 pages.

20. **German, Advanced.** (1 unit) German prose reading of the more difficult selections from standard authors. Poems memorized, composition work which leaves no doubt as to the thorough grammatical drill of the applicant. The candidate must be able to write in German, short, original themes upon assigned topics. Not less than 700 pages of good modern literature required.

21. **French, Elementary.** (2 units) The essentials of grammar, including the regular and the most common irregular verbs, forms and positions of pronouns. The reading of at least 250 pages of modern prose. Easy composition and dictation. Conversation on the text read. Particular stress should be laid on correct pronunciation.

22. **French, Intermediate.** (1 unit) Review of the essentials of grammar. Study of irregular verbs and the study of advanced grammar. Composition, written and oral. Reading of about 400 pages of prose by standard modern authors and one or two modern plays. Written analysis and criticisms on text read and conversation on the same. Sight

reading and translation. Special attention should be paid to the correct use of idioms.

23. French, Advanced. (1 unit) The reading of about 800 pages of classical and modern French works by standard authors. The writing of numerous short themes either on topics of every day life or on the text read. Frequent discussions on the text read and advanced composition. The work to be conducted in French.

24. Spanish. (2 units) Thorough work in grammar, with especial attention to verb drill, including the subjunctive. Sight reading, and translation of about five hundred pages, including some poetry. Easy Spanish composition and original short themes.

25. Physics. (1 unit) The requirement represents at least one daily exercise throughout the year (preferably the last) in academy or high school, and includes elementary mechanics, heat, sound, light, electricity and magnetism. There should be close relation between class work, lecture demonstration work, and laboratory work. Emphasis should be placed on principles, application of principles to daily life, and ability to solve problems and to think. The class work should include the study of some standard, up-to-date text; such, for example, as Millikan and Gale's First Course in Physics. In the laboratory the student should individually perform with some accuracy at least thirty-five typical experiments, and should present at entrance a well written note book, properly indexed, duly signed by the teacher. To have passed Physics

may or may not be sufficient; the student must have passed with credit in some "accredited" school or show evidence to the head of the Physics department of having done work of high grade which is recognized as fully equivalent to the rank of "recommended."

26. Chemistry. (1 unit) The completion of an elementary course in general chemistry is required, with practical work in the laboratory. The work is represented by that given in Newell's Descriptive Chemistry and Laboratory Manual. Note books, satisfactory to the head of the department, are also a part of the requirement.

27. Botany. (1 unit) Applicants for credit in this subject must show ability, obtained during a full year's work of five exercises per week, to solve problems in the field and laboratory. It is not deemed sufficient to simply know terms. The applicant must be able to give intelligent explanations for local conditions. A well kept note book signed by the instructor must accompany the application. The pupil must have a general knowledge of plant morphology and physiology and also be able to recognize readily the common orders of flowering plants. The following texts or their equivalents suggest the scope of the work required: *Osterhout's Experiments*, *Bergen's Elements of Botany*.

28. Zoology. (1 unit) The prerequisites for credit in this subject correspond in time and method to those called for in Botany. Any one of the following texts suggests the scope of the work: *Kings-*

ley's Comparative Zoology, Merrill's Studies in Zoology, or Davenport's Introduction to Zoology.

29. Physiology. (1 unit) Credit will not be given for elementary physiology and hygiene done in the grammar grades. The work must at least have covered the equivalent of Martin's Human Body. Four hours per week must have been spent in a well organized laboratory. Candidates must present note books signed by an instructor.

30. Physical Geography. (1 unit) This course should have seven periods per week for one year, of which four should be arranged as double laboratory periods. The subject as presented in a text book should be supplemented by laboratory work, including experiments and map study. Records of this work should be kept in a note book, which should be presented as a part of the entrance requirement. The work should include the commonly accepted divisions of the subject, viz.: mathematical geography, the atmosphere, the ocean, and land forms.

31. General Science. (1 unit) The requirement represents at least five forty-five-minute exercises a week for one year, of which two-fifths or more should be laboratory work. A record should be made of at least thirty-five experiments individually performed and the note book presented at entrance.

The aim of the course is not to present a vast, incoherent store of information touching every division of natural science, but is both to lay the foundation for future scientific work and to per-

form an important part in a general education. These purposes are accomplished by training the student to experiment carefully, to observe closely, to interpret intelligently both experiment and daily phenomena, and thus to grasp the fundamental principles and processes which underlie all natural science.

It is suggested that the course be based upon physical principles so related to the biological that one science will dovetail into another related in principles and applications. The chemical process of the burning of a candle is related to the burning of coal in the production of peat, to the oxidation of food in the body, to decay, and to life changes of wide application. Thus the course may well include such common basic phenomena and facts as: oxidation; physical and chemical changes; composition of air, water, food, rocks, and soil; physiological processes of life, growth, and decay; hygiene and sanitation with reference to bacteria in the home, agriculture, disease, and the industrial arts; uses and sources of foods; cycle of organic life and interdependence of plants, animals, and man; influence of climatic, seasonal, and geologic changes; relation of the earth to heavenly bodies.

Requirements for Graduation

No student is permitted to graduate who has not spent at least one year in resident study at the college.

The unit employed in reckoning college credits is one recitation per week in one subject continued through a semester. One hundred and twenty-eight of these units are required for graduation, sixty-eight to be completed normally in the Freshman and Sophomore years, and sixty in the Junior and Senior.

A thesis representing the work of some department in which the candidate has completed advanced courses amounting to not less than six units is required of every one before graduation. The Dean must be notified in writing of the department chosen not later than October 15th of the candidate's Senior year. The subject of the thesis and the thesis itself must be approved by the head of the department, and the thesis must be in his hands by May 1st.

COURSES OF STUDY

The courses of study have been arranged with three objects in view:

1. General culture.
2. Special training along chosen lines.
3. Free election, on the part of the student, of a

limited number of subjects adapted to his individual tastes and purposes.

To meet the requirement of general culture, certain subjects are prescribed in all courses leading to a degree, viz :

Bible	8 units
Rhetoric and Composition	6 units
English Literature	6 units
French or German	10 units
History	6 units
Mathematics	6 units
Chemistry or Biology or Physics, 6 units	
Logic	3 units
Psychology	3 units
Ethics	3 units
Physical Training	4 units

Note.—Where no French or German is offered at entrance, 10 college units (as above) are required for the A. B. degree and 16 for the degree of B. L. or B. S.

To meet the requirement of special training, every student is expected to choose two departments in which to pursue more advanced courses. Certain prerequisite courses, definitely specified in each instance and extending ordinarily through the Freshman and Sophomore years, must first be completed; after which, advanced courses amounting to 18 units in the two departments chosen (6 being the minimum in either) must be completed before graduation. Following is a list of the dual groups from which the choice may be made, together with

the prerequisites for advanced courses in each department reckoned in units:

- I. Latin (12) and Greek (16.)
- II. French (16) and German (6.)
- III. English (12) and Latin (12.)
- IV. English (12) and Greek (16.)
- V. English (12) and French (6.)
- VI. English (12) and German (6.)
- VII. English (12) and History (12.)
- VIII. History (12) and Economics (6.)
- IX. Mathematics (15) and Physics (14.)
- X. Chemistry (14) and Biology (10.)
- XI. Chemistry (14) and Physics (14.)

Note.—In the above statement where Greek or German is named, or where French is named without German, an entrance credit of two years in the subject is assumed. Where French is named in connection with German, no entrance credit in French is assumed.

To meet the requirement of free election, every student is permitted to select a number of subjects, varying somewhat in amount according to the group chosen, and subject only to the necessary sequence of courses within the several departments.

Each of the groups named above, provided all other requirements for graduation be fulfilled, leads to one of three degrees, viz:

Group I, Bachelor of Arts.

Groups II-VIII, Bachelor of Letters.

Groups IX-XI, Bachelor of Science.

But a student who completes any one of the

eleven groups may receive the degree of Bachelor of Arts by including Latin 1 and 2 and Greek 1 and 2 (see under Departments of Instruction), or by presenting admission subjects 14 and 15 and including in his college course six additional units of Greek beyond the amount already named.

Synopsis of Groups

Note. — The subjects characteristic of each group (for convenience termed group subjects) appear in capitals at the head of the column.

The figures show the number of units required in each subject.

The letters in parenthesis at the top of each group show what groups of admission subjects furnish the requisite preparation. For further explanation see page 31.

In groups I to VIII inclusive the requirement of 6 units of Mathematics may be satisfied either by offering admission subjects 7 and 8 or by completing any two of Mathematics A, B, and 1.

Except where other credits are presented sufficient to satisfy all entrance requirements, an admission subject credited on a college requirement means a corresponding increase in the number of elective units necessary for graduation.

Group I.

(A)

Freshman and Sophomore.

LATIN	12
GREEK	16
Bible	4
English	
Rhet. and Comp..	6
Literature	6
French or German ..	*10
Mathematics	6
Physics ..	} one..... 6
Chemistry ..	
Botany ..	
Zoology ..	
Physical Training ..	4

Junior and Senior.

LATIN }	18
GREEK }	
Bible	4
History	6
Logic	3
Psychology	3
Ethics	3
Elective	21

* No French or German having been presented at entrance.

Group II.

(A, B, C)

Group III.

(A**)

Freshman and Sophomore.

FRENCH	16	ENGLISH	12
GERMAN	*6	LATIN	12
Bible	4	Bible	4
English			
Rhet. and Comp..	6		
Literature	6		
Latin	*10	French or German ***	16
Mathematics	6	Mathematics	6
Physics ..	} one..... 6	Physics ..	} one..... 6
Chemistry		Chemistry	
Botany ..		Botany ..	
Zoology .		Zoology .	
Physical Training ...	4	Physical Training ...	4

Junior and Senior.

FRENCH }	}	18	ENGLISH }	}	18
GERMAN }			LATIN ... }		
Bible		4	Bible		4
History		6	History		6
Logic		3	Logic		3
Psychology		3	Psychology		3
Ethics		3	Ethics		3
Elective		27	Elective		31

128

128

* Where the minimum entrance requirement in foreign languages (two years) has been offered in German.

** Not including admission subject 16.

*** No French or German having been offered at entrance.

Group IV.

(A, B, C)

Group V.

(A, B, C)

Freshman and Sophomore.

ENGLISH	12	ENGLISH	12
GREEK	*16	FRENCH	**6
Bible	4	Bible	4
French... }			
German .. }	*16		
Latin..... }		Latin	**10
Mathematics	6	Mathematics	6
Physics .. }		Physics .. }	
Chemistry }	one..... 6	Chemistry }	one..... 6
Botany .. }		Botany .. }	
Zoology .. }		Zoology .. }	
Physical Training ...	4	Physical Training ...	4

Junior and Senior.

ENGLISH }	18	ENGLISH }	18
GREEK .. }		FRENCH }	
Bible	4	Bible	4
History	6	History	6
Logic	3	Logic	3
Psychology	3	Psychology	3
Ethics	3	Ethics	3
Elective	27	Elective	43
	128		128

* Where two years of Greek have been presented at entrance in addition to the minimum requirement in foreign languages (two years of French, German, or Latin).

** Where the minimum entrance requirement in foreign languages (two years) has been offered in French.

Group VI.

(A, B, C)

Group VII.

(A, B, C)

Freshman and Sophomore.

ENGLISH	12	ENGLISH	12
GERMAN	*6	HISTORY	12
Bible	4	Bible	4
		Economics	6
History	6	French... }	
Latin	*10	German... }	**16
Mathematics	6	Latin.... }	
Physics .. }		Mathematics	6
Chemistry }		Physics .. }	
Botany .. }	one..... 6	Chemistry }	one..... 6
Zoology . }		Botany .. }	
Physical Training ...	4	Zoology . }	
		Physical Training ...	4

Junior and Senior.

ENGLISH }		ENGLISH }	
GERMAN }	18	HISTORY }	18
Bible	4	Bible	4
Logic	3	Logic	3
Psychology	3	Psychology	3
Ethics	3	Ethics	3
Elective	43	Elective	31
	128		128

* Where the minimum entrance requirement in foreign languages (two years) has been offered in German.

** Where only the minimum requirement in foreign languages has been presented at entrance (two years of French, German, or Latin).

OCCIDENTAL COLLEGE

Group VIII.

(A, B, C)

Group IX.

(C)

Freshman and Sophomore.

HISTORY	12	MATHEMATICS **	15
ECONOMICS	6	PHYSICS	14
Bible	4	Bible	4
English		English	
Rhet. and Comp..	6	Rhet. and Comp..	6
Literature	6	Literature	6
French... }		French... }	
German... }	*16	German... }	*16
Latin..... }		Latin..... }	
Mathematics	6		
Physics .. }		Chemistry	6
Chemistry }	one..... 6		
Botany .. }		Botany .. }	one..... 6
Zoology .. }		Zoology .. }	
Physical Training ...	4	Physical Training ...	4

Junior and Senior.

HISTORY }	...18	MATHEMATICS ..	12
ECONOMICS }		PHYSICS	6
Bible	4	Bible	4
		History	6
Logic	3	Logic	3
Psychology	3	Psychology	3
Ethics	3	Ethics	3
Elective	31	Elective	14
	128		128

* Where only the minimum requirement in foreign languages has been presented at entrance (two years of French, German, or Latin.)

**Where Trigonometry is not presented at entrance.

Group X.
(C)

Group XI.
(C)

Freshman and Sophomore.

CHEMISTRY	14	CHEMISTRY	14
BIOLOGY	10	PHYSICS	14
Bible	4	Bible	4
English		English	
Rhet. and Comp..	6	Rhet. and Comp. ...	6
Literature	6		
French... }		French... }	
German... }	*16	German... }	*16
Latin.... }		Latin.... }	
Mathematics	6	Mathematics	12
Physics	6		
Physical Training ...	4	Physical Training ...	4

Junior and Senior.

CHEMISTRY }	18	CHEMISTRY	12
BIOLOGY ... }		PHYSICS	6
Bible	4	Bible	4
		English Literature ...	6
History	6	History	6
Logic	3	Logic	3
Psychology	3	Psychology	3
Ethics	3	Ethics	3
Elective	19	Elective	15
	128		128

* Where only the minimum requirement in foreign languages has been presented at entrance (two years of French, German, or Latin).

DEPARTMENTS
OF
INSTRUCTION

Departments of Instruction

BIBLICAL LITERATURE

Professor Handley.

1. Pentateuch.

The five books of Moses are studied from the following viewpoints, viz: The explanation of the origin of the world; the origin, nature and fall of man; the historical setting of the Covenant and the typical teaching concerning the Messianic person, period and work. Required of Freshmen.

2 hours, first semester.

2. Prophecy.

The purpose of this course is to examine the office of the prophet, and to study the latter prophets. Particular attention is given to the predictions concerning the Messianic period and person in relation to both Jews and Gentiles. Also the political environment of the prophet is considered. Required of Sophomores.

2 hours, second semester.

3. Pauline Epistles.

These Epistles are studied to ascertain the author's doctrine concerning Salvation: for this purpose not merely his dialectic—but also his teaching concerning God, man and the God-Man are considered. Also the date, occasion and pur-

pose of the Epistles are studied. Required of Juniors.

2 hours, second semester.

4. Writings of John.

Our purpose here is to find the teaching of the Apostle and of others recorded concerning vital matters of Salvation. Date, occasion and purpose are considered. Required of Seniors.

2 hours, first semester.

Elective Courses

5. Historical Books of the Old Testament.

The history of Israel is taken up where it was left off in course 1. The aim is to get the fuller historical setting of God's redemptive work.

2 hours, second semester.

6. Poetical Writings of the Old Testament.

These writings are studied from the literary and prophetic viewpoints and to gain an insight into the devotional life of the people together with their practical wisdom.

2 hours, first semester.

7. Life of Christ.

This course is a study of the gospel records, together with prophetic and later evidence that "this is the Christ."

2 hours, second semester.

8. Acts, Hebrews and Epistles.

This course with those offered above completes the study of the Scriptures. Acts gives us a history of the early church while the Epistles present various phases of doctrine and life.

2 hours, first semester.

PHILOSOPHY

Professor Handley.

1. **Psychology.**

This course is a study of the most general elementary and developed forms of consciousness. Ladd or equivalent is used for text. Required of Juniors.

3 hours, first semester.

2. **Logic.**

The principles of Deductive and Inductive Logic are studied and applied in practical work. The purpose is to so familiarize the student with the laws of thought that they be made of practical advantage. Required of Juniors.

3 hours, second semester.

3. **Ethics.**

The philosophy of the moral life is studied from the historical, psychological, philosophical and sociological aspects. Mackenzie or equivalent used as text. Required of Seniors.

3 hours, first semester.

4. **History of Philosophy.**

An outline study of the principal systems of thought from Thales to the present time. Weber or equivalent is used for text. Junior-Senior Elective. Alternates with 5: given in 1908-09.

3 hours, second semester.

5. **Theism.**

A study of the theistic arguments together with

an examination of the anti-theistic theories. Junior-Senior Elective. Alternates with 4: not given in 1908-09.

3 hours, second semester.

EDUCATION

Professor Cook.

1. History of Education, Earlier Period.

The Biblical idea of education. Educational theory and practice in Greece and Rome, and in the leading nations of Europe during the Middle Ages. Lectures. Painter's History of Education. Laurie's Historical Survey of Pre-Christian Education. To alternate with course 2. Open to Juniors and Seniors.

3 hours, first semester.

2. History of Education, Later Period.

Educational theory and practice in the more advanced nations of modern times. Lectures. Painter's History of Education. Quick's Educational Reformers. Supplementary reading. To alternate with course 1. Open to Juniors and Seniors.

3 hours, first semester.

3. Pedagogy.

Application of ethical principles, and of the sciences of logic, rhetoric, psychology, and physiology to education. The aim will be to give a comprehensive view of the educational process, and to acquaint the student with the best ways

and means of promoting physical health and vigor, and of cultivating the senses, intellect, feelings, will, and conscience, and the most approved methods of teaching the subjects usually studied in secondary schools. Lectures. Compayre's Lectures on Pedagogy. White's Elements of Pedagogy. Supplementary reading. To alternate with course 4. Open to Juniors and Seniors.

3 hours, second semester.

4. Philosophy of Education.

The course will include a study of the aim, the meaning, and the individual and social aspects of education, educational values, the curriculum, correlation of studies, interest, attention, the art of study, qualifications of teachers, method of the recitation, laws of teaching. Lectures. Horne's Philosophy of Education. McMurray's General Method and Method of the Recitation. Supplementary reading. To alternate with course 3. Open to Juniors and Seniors.

3 hours, second semester.

ENGLISH

Professor Cooper.

Professor.....

1. English Composition.

Narration, description and exposition. Required in all courses; Freshman year.

2 hours, through the year (4 units).

Professor.....

2. Exposition and Argument.

An advanced course in composition. Required in all courses; Sophomore year.

Prerequisite, course 1.

2 hours, first semester.

Professor.....

6. Victorian Prose Writers.

Carlyle, Ruskin, Arnold. A study of representative works of these writers, with special reference to the qualities and varieties of prose style. Designed particularly to fit students for the more advanced courses in literature. Required in all courses; Sophomore year.

3 hours, first semester.

Professor Cooper.

7. Victorian Poets.

A study of the chief Victorian poets from Tennyson to Swinburne, with emphasis on the elements of poetic form and of poetic criticism. Introductory to more advanced courses in poetry. Required in all courses; Sophomore year.

3 hours, second semester.

Professor Cooper.

Advanced Courses

Courses 1, 2, 6, and 7 are prerequisite to all advanced courses.

11. Early Nineteenth Century Poets.

Wordsworth, Coleridge, Byron, Shelley, Keats.

A study of the romantic movement of the early part of the nineteenth century.

3 hours, second semester.

Professor Cooper.

12. Shakespeare.

The principal plays read chronologically, with special attention to the development of Shakespeare's mind and art.

3 hours, first semester.

Professor Cooper.

13. Nineteenth Century Novelists.

Jane Austen, Scott, Dickens, Thackeray, George Eliot. (The right to withdraw this course for 1908-09 is reserved.)

3 hours, first semester.

Professor Cooper.

14. The Short Story.

A course in Short-Story writing, based on a study of the masterpieces of the art, with special reference to principles of construction.

2 hours, second semester.

Professor Cooper.

15. English Prose from Lamb to Macaulay.

A study of the prose writings of Lamb, De-Quincey, Landor, and Macaulay.

3 hours, first semester.

Professor Cooper.

16. English Prose from Dryden to Johnson.

A study of the prose writings of Dryden, Addi-

son, Steele, Swift, and Johnson. (Alternate with course 15. Omitted in 1908-09.)

3 hours, first semester.

Professor Cooper.

17. Milton.

The study of "Paradise Lost."

2 hours, second semester.

Professor Cooper.

18. Thesis.

In connection with any of the advanced courses the student may, with the permission of the instructor, write a thesis embodying some piece of research.

1 unit, either semester.

Professor Cooper.

ORATORY

Professor Dickson.

1. Vocal Expression.

Fundamental principles of expression, pronunciation, articulation, voice building, and the elements of interpretative reading. Required in all courses; Freshman year.

2 hours, second semester.

2. Public Speaking.

Practice in the preparation and delivery of speeches. Extemporaneous work. Debate. Required in all courses. Junior year.

2 hours, first semester.

3. Masterpieces in Oratory.

Sears' History of Oratory, Modern Eloquence.
Preparation and delivery of one original oration.
Open to Juniors and Seniors.

3 hours, first semester.

4. Vocal Interpretation of

(a) Tennyson, Browning, Burns, Dickens, Scott,
Eliot, and others, or

(b) Shakespeare.

Open to Juniors and Seniors.

3 hours, second semester.

LATIN

Professor Ward.

Instructor Morgan.

A. Elementary.

Beginner's Book. Caesar's Gallic War, books I-IV. Prose composition. This course is identical with admission subject 13.

5 hours, through the year (10 units).

Instructor Morgan.

1. Livy.

The larger portion of books XXI and XXII is read, with particular attention to the syntax and Livy's qualities as a writer and historian. Collateral reading on the history of the period.

Prerequisite, admission subjects 14 and 15.

3 hours, first semester.

Professor Ward.

2. Horace and Cicero.

Horace: Odes and Epodes. Cicero: De Amicitia or De Senectute. Lyric meters. Political conditions at the beginning of the empire.

Prerequisite, course 1.

3 hours, second semester.

Professor Ward.

3. Plautus and Terence.

Plautus: Captivi and Trinummus. Terence: Phormio. Meters, early forms and constructions, Roman and Greek life.

Prerequisite, course 2.

3 hours, first semester.

Professor Ward.

4. Tacitus and Pliny.

Tacitus: Agricola and Germania. Pliny the younger: selected letters. Investigation of literary and political conditions under the empire.

Prerequisite, course 3.

3 hours, second semester.

Professor Ward.

5. Prose Composition I.

For those preparing to teach Latin in the high schools of California, this and the following course are essential.

Prerequisite, admission subjects 14 and 15.

2 hours, first semester.

Professor Ward.

6. Prose Composition II.

Prerequisite, course 5.

2 hours, second semester.

Professor Ward.

Advanced Courses

Course 4 is the common prerequisite for all advanced courses in this department. Two of these are offered each year, besides course 13; 7 and 10 will be given in 1908-09. An additional prerequisite to course 13 is course 6.

7. Horace and Juvenal.

Horace: Satires and Epistles. Juvenal: selected Satires.

3 hours, first semester.

Professor Ward.

8. Tacitus.

Selections from the Annals. Collateral studies in the history of the empire.

3 hours, second semester.

Professor Ward.

9. Lucretius.

De Rerum Natura: books I, III, and V, with extended sight reading in the other three books. The Epicurean system and its poetic treatment at the hands of Lucretius.

3 hours, first semester.

Professor Ward.

10. Seneca.

Moral essays, accompanied by a close examination of Stoicism as a creed and of its influence upon Roman life.

3 hours, second semester.

Professor Ward.

11. Catullus, Tibullus, and Propertius.

Selections. Rise of Alexandrinism. Roman morals. Literary coteries of the times.

3 hours, first semester.

Professor Ward.

12. Roman Comedy.

Plautus: Rudens and Mostellaria. Terence: Andria and Adelphi. Lectures on the Roman Drama.

3 hours, second semester.

Professor Ward.

13. Prose Composition III.

2 hours, either semester.

Professor Ward.

GREEK

Professor Archibald.

In this department provision is made for those who enter without Greek, with two years, or with three. These three classes may absolve the Greek

requirement for A. B. in two years, one year, and one-half year respectively. It is thus possible for a student entering without Greek to obtain the degree of A. B. in any but the Science and French-German groups. Two years in Greek beyond the requirement for A. B. will fulfill the requirement of a Greek Minor in any group.

The courses in this department are intended to combine culture with accuracy throughout. They are consecutive and contain the cream of Greek literature. Those taking but one year will find it valuable for literary, scientific, or theological purposes, while those who wish to proceed through the advanced courses may become fully prepared for graduate work. The important topics connected with the Greek language and literature are fully discussed by the aid of informal lectures, collateral reading, and frequent essays.

A. College Beginning Greek.

- (a) Grammar (Goodwin). Beginning Book (Archibald).
- (b) Gospel of John (White).
- (c) Xenophon: Anabasis, I-III (Harper and Wallace).

The chief aim of this course is a good grounding in Greek, but considerable attention is also given to the subject matter, and 500 English derivatives are analyzed. This course is essential for those preparing to teach Latin in the high schools of California, and is a minimum for the

Rhodes Scholarships. Equivalent to admission subject 16.

5 hours, through the year (10 units).

1. Cebes, Homer.

(a) Cebes: Tablet (Parsons). Intended as a practical preparation for Plato.

(b) Composition based on the above.

(c) Homer: Iliad, I-III (Benner). An introduction to the vocabulary, style, and rhythm of Homer.

This course is equivalent to admission subject 17.

Prerequisite, admission subject 16 or course A.
5 hours, first semester.

2. Homer.

Iliad (Benner). A critical linguistic and literary study of selections amounting to six books not read previously, together with extensive sight reading in other books. A large poetical vocabulary is systematically acquired, and facility gained in interpretation by means of reading. This course is required of all candidates for the A. B. degree.

Prerequisite, admission subject 17 or course 1.
5 hours, second semester.

3. Plato.

Apology, Crito, and part of Phaedo (Kitchel). An introduction to the style and themes of Plato. The career and teachings of Socrates.

Prerequisite, admission subject 17 or course 1.
3 hours, first semester.

4. Plato.

Protagoras (Towle). A more typical Platonic dialogue. This course alternates with course 3, and is not offered in 1908-09.

Prerequisite, admission subject 17 or course 1.
3 hours, first semester.

5. Homer.

Odyssey V-XIII (Merry, Perrin and Seymour). Studied in comparison and contrast with the Iliad.

Prerequisite, course 2.
3 hours, first semester.

6. Euripides, Sophocles.

Euripides: Alcestis (Hayley). Sophocles: Antigone (D'Ooge). An introduction to Greek tragedy.

Prerequisite, course 2 and one of courses 3, 4, 5.
3 hours, second semester.

7. History of Greek Literature.

Especial attention is paid to the place in literature of Homer, the dramatists, Herodotus, Thucydides, Plato, Aristotle, and Demosthenes. Wright's History of Greek Literature, supplemented by lectures and essays. A knowledge of Greek is desirable but not required.

Open to all students.
1 hour, second semester.

8. Prose Composition.

Murray. For those preparing to teach Greek in

the high schools of California, this course is essential. It should follow course 3 or course 4.

2 hours, second semester.

Advanced Courses

Two of these are offered each year, 11 and 12 being offered in 1908-09. The common prerequisite to all is course 6.

11. Plato.

Gorgias (Lodge). Critical study.

3 hours, first semester.

12. Aristophanes, Euripides.

Aristophanes: Clouds (Humphreys). Euripides: Medea (Earle). The Greek theatre. Contrast between comedy and tragedy.

3 hours, second semester.

13. Thucydides.

Books I-II (Morris, Lamberton). The Peloponnesian War. Contemporary archeology.

3 hours, first semester.

14. Sophocles, Aeschylus.

Sophocles: Oedipus Tyrannus (Earle). Aeschylus: Agamemnon (Allen). Dramatic criticism according to Aristotle's Poetics.

3 hours, second semester.

FRENCH

Professor Wilson.

1. Elementary.

First semester. Thorough drill in fundamental rules of grammar with daily oral and written exercises. Reading of short stories and conversation on text read.

Second semester. Drill on irregular verbs, idioms, elements of syntax. Reading of prose by modern authors. Easy composition. Special attention is given to acquiring a vocabulary. French being a living language, great attention is paid in this and the following courses to correct pronunciation and accentuation.

5 hours, through the year (10 units).

2. Modern Prose and Dramatic Writers.

First semester. General review of grammar, dictations in French, composition, written and oral.

Reading: Short stories by modern authors, one modern play, conversation based upon texts read. In addition, 300 pages of outside reading are required, with written resume of the same in French.

Second semester. Composition, written and oral. Reading: One or two modern plays, modern prose, resumes written in French. In addition, 400 pages of outside reading are required with written resumes in French.

Prerequisite, admission subject 21 or course 1.
3 hours, through the year (6 units).

6. Scientific French.

Primarily for scientific students and intended to afford a general familiarity with French technical terms and style sufficient to enable the student to read books, monographs, and periodicals treating of recent scientific development.

Prerequisite, an ability to interpret readily the easier French authors.

3 hours, one semester.

Advanced Courses

3. Composition and Classics.

Advanced Composition.

Reading: Prose by Sand, Balzac, Rostand. Themes and conversations on works read. Sight translation of prose.

Reading of Classics: Molière, Racine.

Prerequisite, course 2.

3 hours, through the year (6 units).

4. Chateaubriand, dramas by Victor Hugo, History of French Literature in form of lectures with written reports from students. Conversation and discussion on texts read.

Prerequisite, course 3.

3 hours, through the year (6 units).

5. History and Literature of France.

This course is offered to those students who have chosen French as one of their group subjects and who wish to carry the subject beyond the usual twelve units of advanced courses.

Recitations will be conducted in the form of lec-

tures in French, the student taking notes and writing resumes of the lectures in French.

Prerequisite, course 4.

3 hours, through the year (6 units).

GERMAN

Professor Behnke.

1. Elementary.

It is expected that this class will do the equivalent of the work mapped out for the regular two-years' course in German of the Academy and enable the student to continue creditably in the college course.

5 hours, through the year (10 units).

2. Modern Prose and Poetry.

German Classics: Schiller. Essentials of German grammar, including the more detailed work of syntax and composition. German conversation.

Prerequisite, course 1.

3 hours, through the year (6 units).

5. Scientific German.

This course is principally intended for science students. Only those who have acquired a thorough theoretical and practical knowledge of the main principles of German grammar can be admitted, as no attempt will be made to explain the forms of declension, conjugation, construction, etc. The main purpose of the course is to familiarize the student with technical vocabulary

and terms that are most frequently used in German scientific works.

3 hours, second semester.

Advanced Courses

3. Classics.

Lessing, Goethe, Schiller; selected dramas. Biographies and life work outlined. Solid composition and essay writing.

Prerequisite, course 2.

3 hours, through the year (6 units).

4. Condensed Outline of German Mythology, History and Literature which will enable the student to acquire valuable knowledge of European conditions, past and present. This course, being specially prepared to fit our time limitations, is given in German, and students will be expected to write an occasional essay in German on the topic previously discussed, looking for further references elsewhere. These essays will determine their grade of scholarship.

Prerequisite, course 3.

3 hours, through the year (6 units).

SPANISH

Professor Behnke.

1. Elementary.

Elements of Spanish grammar, composition, dialogues, short stories and poetry. The verb and vocabulary drill will be a feature of the

second semester. Identical with admission subject 24.

Prerequisite, admission subject 13 or 21.

4 hours, through the year (8 units).

2. Essentials of Advanced Spanish Grammar and Composition.

Reading of selections from Cervantes, Lope de Vega, Alarcón, Moratín, Iriarte, etc.

Prerequisite, course 1 or admission subject 24.

3 hours, through the year (6 units).

3. Condensed History of Spain and of Spanish Literature, the latter intended as a study of great authors of the eighteenth and nineteenth centuries. Occasional essays and criticisms in Spanish will be required.

Prerequisite, course 2.

3 hours, through the year (6 units).

HISTORY

Professor Cunningham.

1A. History of England.

A general view of the political history of England to 1605. Special study of Adams' and Stephens' Select Documents of English Constitutional History.

3 hours, first semester.

1B. History of England.

A general view of the political history of England from the seventeenth to the twentieth cen-

ture. Special study of Imperial England from literary sources.

3 hours, second semester.

2A. History of Western Europe.

A survey of the history of Western Europe to the sixteenth century. Special study of Adams' Civilization During the Middle Ages.

3 hours, first semester.

2B. The Renaissance and Reformation.

The Renaissance: A study of the transition from medieval to modern thought, supplemented by lectures from professors in literature and art.

The Reformation. A study of the Protestant reformation in Northern Europe.

3 hours, second semester.

Advanced Courses

Courses 1 and 2 are prerequisite to all advanced courses in history. A student may for special reasons be admitted to one of the following courses who lacks part of the prerequisite; but in that case it will not be counted as an advanced course. 5A and 5B are given in alternate years with 6A and 6B.

3. History of Greece.

A study of the history of Greece in which special emphasis is laid on the ages of Pericles and Demosthenes.

3 hours, first semester.

4. History of Rome.

A general survey of the history of Rome to the death of Caesar. Special study of the develop-

ment of the constitution and the growth of Caesarism.

3 hours, second semester.

5A. American History 1492-1783.

Beginning of the American nation: the European inheritance. American colonial history: growth of colonial institutions. Causes of the Revolution: growth of independence. Not offered in 1908-09.

3 hours, first semester.

5B. American History from 1783.

A study of national development; the government, the expansion, and the development of the United States. Not offered in 1908-09.

Additional prerequisite, course 5A.

3 hours, second semester.

6A. Modern European History.

A general survey of the history of Europe in the eighteenth century. Special study of the French Revolution and the Napoleonic era.

3 hours, first semester.

6B. Modern European History.

A general survey of the history of Europe in the nineteenth century. Special study of the national leaders and social reforms.

3 hours, second semester.

ECONOMICS AND SOCIOLOGY

Professor Stevenson.

Courses 1 and 3 are recommended to students who expect to take only one year's work in this department; but such students may register for courses 1 and 2.

Courses 1 and 2 are intended primarily for Juniors and Seniors, but they are open to Sophomores who expect to take advanced courses in Economics.

1. Economics.

An introductory course dealing with essential facts and principles, and prerequisite to all other courses. The text book will be followed in the order of topics and the general manner of treatment; but full and free discussion of controverted points will be required, together with careful reading of standard authorities, and preparation of papers on assigned topics.

3 hours, first semester.

2. Money and Banking.

The fundamental principles of monetary theory, the history and the practice of banking, and discussion of current problems and legislation. Text books, lectures, and papers.

Prerequisite, course 1.

3 hours, second semester.

Advanced Courses

History 1 is prerequisite to all advanced courses in this department. Additional prerequisites are stated below.

3. Sociology.

An introduction to sociological theory, with incidental discussion of the practical problems relating to social reforms and with constant reference to the influence of Christianity on the development of modern society. Lectures and assigned readings.

Prerequisite, course 2; but courses 2 and 3 may be taken in the reverse order, in which case 2 will be counted as an advanced course and 1 and 3 as its prerequisite.

3 hours, first semester.

4. Practical Sociology.

The application of sociological principles to charity, criminology, and constructive social work. Lectures, the literature of the subject, and personal investigation. Los Angeles offers ample opportunity for field work in the many institutions and conditions that illustrate nearly every phase of social health and social disease.

Prerequisite, course 3.

3 hours, second semester.

5. Public Finance.

A study of public revenue and expenditure and of financial administration, with special reference to the principles and practice of taxation in the United States.

Prerequisite, courses 1 and 2.

3 hours, first semester.

6. Modern Industrialism.

A critical study of the problems arising from

present industrial conditions—the relation of labor and capital, combinations, etc.—and of current questions of special interest and importance. Not given in 1908-09.

Prerequisite, course 5.

3 hours, second semester.

7. **Advanced Economics.**

A detailed examination of selected subjects treated less fully in course 1. Special attention is given to topics that bear on the relation between the present social order and the distribution of wealth. Text books and lectures.

Prerequisite, course 5.

3 hours, second semester.

MATHEMATICS

Professor Allen.

Assistant Professor Cook.

A. **Solid Geometry.**

The properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids and the regular solids, of cylinders, cones and spheres, of spherical triangles, and the measurement of surfaces and solids.

Prerequisite, admission subjects 4 and 6.

3 hours, one semester.

Assistant Professor Cook.

B. **Plane and Spherical Trigonometry.**

The development of the general formulae of trigonometry. The theory and use of logarithms.

The application of trigonometry to numerous problems in plane and spherical mensuration.

Prerequisite, admission subjects 4 and 6.

3 hours, one semester.

Assistant Professor Cook.

1. College Algebra.

This course includes the development and application of the binominal theorem and of the exponential and logarithmic series, permutations and combinations, and the theory of equations.

Prerequisite, admission subjects 4 and 6.

3 hours, first semester.

Assistant Professor Cook.

3. Plane Analytics.

A study of analytic methods, the analytic geometry of the straight line, the circle, and the conic sections, and investigation of the general equation of the second degree.

Prerequisite, course 1 and either admission subject 8 or course B.

3 hours, second semester.

Assistant Professor Cook.

4. Differential Calculus.

The principles and formulae of differential calculus, and the application to such problems as maxima and minima, indeterminate forms, expansion of series, etc.

Prerequisite, course 3 or admission subject 8.

3 hours, first semester.

Professor Allen.

6. Integral Calculus.

The principles and formulae of integral calculus,

with application to problems in integration, such as lengths of curves, areas, volumes, etc.

Prerequisite, course 4.

3 hours, second semester.

Professor Allen.

Advanced Courses

Course 4 is a prerequisite for the following subjects if taken as advanced courses. Otherwise the prerequisites are indicated with each subject described.

7. Elements of Mechanics.

Investigation and application of the best methods of applied mechanics to the development of the fundamental principles and methods of rational mechanics.

Prerequisite, courses B and 1.

3 hours, second semester.

Professor Allen.

8. Theory of Equations.

The theory of determinants; the theory, analysis, and solution of higher numerical and algebraic equations.

Prerequisite, courses B and 1.

3 hours, first semester.

Professor Allen.

9. Higher Analytics.

A more advanced course than course 3, including a study of higher plane curves and the elements of solid analytic geometry.

Prerequisite, course 3.

3 hours, first semester.

Professor Allen.

10. Surveying.

The department is equipped with a transit, Y level, Gunter's chain, steel tape, leveling rod, planimeter, slide rules, highly graduated protractor, parallel rules, etc. The principles of land surveying, irrigation, and railroad engineering will engage the attention of the class in actual field work, and the reduction of the field notes to plots drawn to scale.

Prerequisite, course 4; but open to those who have completed 1 and 2 if not taken as an advanced course.

3 hours, second semester.

Professor Allen.

11. Astronomy 2 may count as an advanced course in Mathematics for those who have completed Mathematics 4.

ASTRONOMY

Professor Allen.

1. General Astronomy.

A course in descriptive astronomy. Simple problems and questions, involving the fundamental principles of astronomy. Study of nebulae, planets, and constellations, with the telescope.

Prerequisite, Mathematics 1 and 2.

3 hours, first semester.

2. Practical Astronomy.

Lectures and observatory work. The determination of time, latitude, and longitude, and the

computation of current eclipses and occultation of stars.

Prerequisite, admission subject 7, Mathematics 3, Astronomy 1.

3 hours, second semester.

PHYSICS

Professor Beals

Assistant Professor Fiske.

Assistant H. H. Blee.

The classes in physics are separated into small sections and much attention is individual. Facilities are now provided for a thorough foundation training in mechanics, molecular physics, heat, sound, light, magnetism, and electricity, leading into any branch of advanced physics and advanced engineering given by our best graduate and technical schools. Though four years of physics are now offered, no attempt is made to do graduate or purely technical work. Neither money nor effort is being spared to do well what is attempted.

A varied and representative assortment of new and carefully selected demonstration apparatus is now used to illustrate all lectures and recitations. Suitable instruments of high grade (see page 24), covering a wide range of experiments, admit of excellent results in all laboratory work. Three-hour periods and separate laboratories, where each class may leave apparatus set up, afford opportunity for consecutive and intensive study. Especial advan-

tages in laboratory, in class room, and in a thoroughly well-equipped shop are offered to those having ability and a liking for this kind of work.

A. Elementary Physics.

In the belief that the subject matter of physics as well as the methods cultivated by it are a necessary part of a sound college education, this course is offered to those entering without physics. Not technical nor abstruse, nor largely mathematical nor theoretical but based upon a systematic development of principles and laws, including a wide acquaintance with experimental phenomena and familiar affairs of ordinary life, it is primarily intended for those who expect to proceed no further in the subject, though others may take it to advantage.

2 hours class room, 1 three-hour laboratory period through the year (6 units).

1. General Physics.

Mechanics, molecular physics, and heat. Lectures and recitations, laws and principles, mathematical treatment, problems and examinations upon lectures and reading assignments. This course will hereafter have experimental illustration throughout.

Prerequisite, Trigonometry (completed or in progress), high school Physics, or equivalent. A certified note book containing the original record of laboratory work should be presented to the head of the department before registering for this course.

2 hours through the year (4 units).

Professor Fiske.

2. Physical Measurements.

Mechanics, molecular physics, and heat. Laboratory with quantitative experiments requiring not only a thorough understanding of the principles involved but also care in manipulation and accuracy of observation. This course accompanies course 1.

Prerequisite, same as for course 1.

3 consecutive hours once or twice a week through the year (2 or 4 units).

Professor Fiske.

Assistant Blee.

3. General Physics.

Sound, light, magnetism, and electricity, including elements of wave theory with applications to sound, light, and wireless telegraphy, also elements of X-rays, discharge in vacuum tubes, and high frequency electricity. Full experimental illustration. (See page 24).

Prerequisite, Physics 1 and 2.

3 hours, through the year (6 units).

Professor Beals.

4. Physical Measurements.

Sound, light, magnetism, and electricity. Experimental work requiring keener observation and greater accuracy than Physics 1. This course is varied by means of alternative experiments and by the study of a special problem in

which a student may be interested. This course accompanies Physics 3.

Prerequisite, same as Physics 3.

3 consecutive hours once or twice a week through the year (2 or 4 units).

Professor Beals.

Assistant Blee.

Advanced Courses

5. Electrical Theory.

Mathematical theory of electricity and magnetism. Following in large part the work of J. J. Thomson not only in his *Elements of Electricity and Magnetism* but in his later work upon the electron. Lectures, reading with reports, laboratory.

Prerequisite, Physics, 1, 2, 3, 4, and Mathematics 4 and 6. Scientific German is desirable.

2 hours lecture, 1 three-hour period laboratory, first semester (3 units).

Professor Beals.

6. Absolute Electrical Measurements.

Lectures with advanced laboratory work in electricity and magnetism. This course requires maturity of thought and a marked degree of precision in measurement with instruments of the best domestic and foreign make.

Prerequisite, Physics 5.

1 hour lecture, 2 three-hour periods laboratory, second semester (3 units).

Professor Beals.

Assistant Blee.

CHEMISTRY

Professor Test.

Assistant Professor Fiske.

Assistant C. E. Blee.

1A. General Inorganic Chemistry.

Chemical laws and principles and the chemistry of the non-metals. Lectures and recitations. Alexander Smith's General Inorganic Chemistry recommended as a reference book.

Prerequisite, admission subject 26.

3 hours, first semester.

Professor Test.

1B. General Inorganic Chemistry.

Continuation of course 1A. Continuation of the chemistry of the non-metals, and chemistry of the metals.

Prerequisite, courses 1A and 2.

3 hours, second semester.

Professor Test.

2. General Chemistry Laboratory.

Experiments illustrating the general principles of Chemistry, and the chemistry of the non-metals. To accompany course 1A.

6 hours per week, first semester (2 units).

Assistant Professor Fiske.

Mr. Blee.

3. Qualitative Analysis.

Identification of the more common metals and non-metallic radicals. Laboratory with recitations.

Prerequisite, courses 1A and 2, 1B completed or in progress.

9 hours, second semester (3 units).

Assistant Professor Fiske.

Mr. Blee.

4A. Quantitative Analysis.

Laboratory work taking up simple gravimetric determinations, and the principles of Gravimetric Analysis, with lectures as necessary.

Prerequisite, courses 1 to 3 inclusive.

9 hours, first semester (3 units).

Professor Test.

4B. Quantitative Analysis.

Continuation of 4A taking up simple volumetric determinations and the principles of Volumetric Analysis.

Prerequisite, courses 1 to 4A inclusive.

9 hours, second semester (3 units).

Professor Test.

5A. Organic Chemistry.

Chemistry of the Aliphatic compounds. Lectures and recitations. Perkins and Kipping's Or-

ganic Chemistry recommended as a reference book.

Prerequisite, courses 1 to 3 inclusive, 4A and 4B recommended.

2 hours, first semester.

Professor Test.

5B. Organic Chemistry.

Continuation of course 5A. Chemistry of the Aromatic compounds. Lectures and recitations. Reference same as for course 5A.

Prerequisite, courses 1 to 3 inclusive and 5A, 4A and 4B recommended.

2 hours, second semester.

Professor Test.

Advanced Courses

6. Organic Chemistry Laboratory.

Preparation of some of the simpler typical organic compounds, using Garrett and Harden's Practical Organic Chemistry as a laboratory guide.

Prerequisite, 1 to 4A inclusive with 5A completed or in progress.

9 hours, first semester (3 units).

Professor Test.

Mr. Blee.

7. Elements of Physical Chemistry.

Lectures and recitations covering the elementary principles of Physical Chemistry. Given in alternate years.

Prerequisite, courses 1 to 5 inclusive and
Physics 3 and 4.

2 hours, first semester.

Professor Test.

8. **Advanced Chemistry Laboratory.**

In this course the student may choose his own line of work to some extent. Special methods in Quantitative Analysis, Organic or Inorganic preparations may be taken up with a view to preparing for research work, or if desired a course in assaying may be taken.

Prerequisite, not less than 1 to 4 inclusive.

Hours to be arranged with the instructor.

One or two semesters.

Professor Test.

BIOLOGY

Professor Esterly.

Assistant Professor Cook.

Assistant Goodell.

Zoology

1. **Principles of Zoology.**

The scope of the course is indicated by the name. The animal kingdom is studied systematically, and morphology and physiology are taken up in a general way. Topics of general interest and facts and theories connected with various departments of zoology are reviewed. Instruction is by means of lectures and writ-

ten quizzes. Papers upon assigned topics may also be required.

3 hours, through the year (6 units).

Professor Esterly.

1A. Demonstration.

A laboratory course to accompany the lectures in course 1. It supplements the lectures and enables the student to gain some acquaintance at first hand with most of the topics considered. Required of all those taking course 1 who are not taking course 2 or course 3. The class will be divided into sections of not more than ten students each.

1 hour in the laboratory once in two weeks, through the year (1 unit).

Professor Esterly.

2. General Zoology.

A laboratory course, in which invertebrate types are studied, and the shark among vertebrates. Course 2 must be taken by all who expect to pursue advanced courses in zoology.

Prerequisite, course 1 or its equivalent completed or in progress.

6 hours, first semester (2 units).

Professor Esterly.

3. General Zoology.

A laboratory course, intended to give some insight into vertebrate embryology, histology, and anatomy. The development of the frog, toad, or salamander is followed, and the sala-

mander and frog, one or both, are used in dissection.

Prerequisite, course 2.

6 hours, second semester (2 units).

Professor Esterly.

7. Field Zoology.

Principally a laboratory or field course, the aim of which is to enable students to become acquainted with the higher vertebrates, especially the birds inhabiting this region. The number of students is limited to ten.

3 hours, second semester (1 unit).

Professor Esterly.

Advanced Courses

4. Anatomy of Vertebrates.

Lectures and laboratory. The course aims to cover the higher vertebrate groups in a comprehensive way. The cat is the principal subject of dissection, though a bird or reptile may be included.

Prerequisite, courses 1, 2, and 3.

6 hours in the laboratory and 2 hours of lectures or recitations, first semester (4 units).

Professor Esterly.

5. Cytology and Histology.

Lectures and laboratory. The animal cell is studied in its various phases of activity, and the microscopical anatomy of various tissues and organs of vertebrates is taken up. There is con-

stant practice in the use of various reagents and stains, and in the preparation of mounts and series of sections for the microscope. Not given in the same year with course 6.

Prerequisite, courses 1, 2, and 3.

6 hours in the laboratory and 2 hours of lectures or recitations, second semester (4 units).

Professor Esterly.

6. Embryology.

Lectures and laboratory. The principal features of the development of vertebrates are studied by means of lectures, quizzes, and reports on assigned topics. In the laboratory particular attention is given to the development of the chick and pig. There is also laboratory practice in embryological methods. Not given in the same year with course 5.

Prerequisite, courses 1, 2, and 3.

6 hours in the laboratory and 2 hours of lectures or recitations, second semester (4 units).

Professor Esterly.

Botany

1. Morphology of Cryptogams.

A progressive study of the lower plants based on the structure of the reproductive organs and processes.

Prerequisite, admission subject 27 and elementary Chemistry.

3 consecutive hours twice a week in the laboratory and 2 hours of lectures or recitations, first semester (4 units).

Assistant Professor Cook.

2. Flowering Plants.

A study of the structure and physiology of the higher plants.

Prerequisite, admission subject 27.

3 consecutive hours twice a week in the laboratory and 2 hours of lectures or recitations, second semester (4 units).

Assistant Professor Cook.

GEOLOGY

Professor Fiske.

1. General Geology; Dynamical and Structural.

Lectures and recitations.

Prerequisite, elementary courses in Physiography or General Science or Physics, Chemistry, Botany or Zoology.

2 hours, first semester.

2. General Geology, Historical.

Lectures and Recitations.

Prerequisite, course 1.

2 hours, second semester.

3. Field Geology.

This course involves a careful study of the geological condition in and around Highland Park, including both the mountains and the sea; the drift, rock strata and the various processes now

at work to change the surface of the land. The work includes the construction of topographical maps of the region and the out-crop of strata in more specific cases. Students are required to present reports showing the results of their observations in the field, while photographs of field observations, lantern slides, maps, diagrams, etc., etc., are used extensively in class room work.

This course to accompany course 1.

3 hours, first semester (1 unit).

4. **Mineralogy and General Palaeontology.**

The work of this course is conducted both in the field and laboratory. It consists in the determination of minerals by means of their physical properties. The object is to familiarize the student with the common minerals about him and enable him to recognize them on coming in contact with them in the field. Attention is given also to the methods involved in the determination of minerals by blow-pipe analysis.

A portion of the time of this course is given to the general principles of fossil organisms and the importance of their bearing upon the earth's history.

In both lecture and laboratory work constant use is made of the excellent college collection of minerals and fossils.

This course to accompany course 2.

3 hours, second semester (1 unit).

The work in Geology extends throughout the year, during which time special attention is given to the reading of current geological literature while each semester a carefully prepared thesis on some historical or economical subject is required of the student.

MECHANICAL DRAWING

Instructor Westcott.

The courses cover such fundamental principles of Mechanical Drawing as are essential to the student pursuing science or engineering courses. It is recommended that they be taken as early in the course of the student's work as possible. Work in courses 1 and 2 may begin with either semester, in 3 and 4 with the first semester only.

Open to all.

1. Instrumental Drawing.

(a) Linear drawing, freehand lettering, geometrical problems and constructions, mathematical curves.

(b) Mathematical curves continued, elementary principles of projection in the third quadrant, helical curves.

3 hours, through the year (2 units).

2. Orthographic Projection.

(a) Problems in projection, intersection of solids, development of surfaces.

(b) Application of the foregoing principles to

working drawings, isometric projection, shop sketching.

This course is suitable for those who desire a working knowledge of mechanical drawing but who may not find it desirable to take the more extended course in Descriptive Geometry.

Prerequisite, course 1.

3 hours, through the year (2 units).

3. Descriptive Geometry.

(a) Basic principles, problems on point, line and plane, curved surfaces, sections, intersections.

(b) Shades, shadows and perspective.

The course involves the study and discussion of the elements of drawing from the theoretical side, the problems are adapted to stimulate analytical and constructive thinking; many are so chosen as to show the application of theory to the practical work of the engineer and draftsman. From one to three hours per week are devoted to recitation or lectures, the balance to work at the drawing board.

Prerequisite, course 1.

6 hours, through the year (4 units).

4. Machine Drawing.

(a) Machine details, bolts and nuts, screw threads, elements of machine movements, cam, lever and link.

(b) Working drawings of machines, assembly drawings, tracings, blue-prints, titles.

Prerequisite, course 2 or 3.

3 hours, through the year (2 units).

PHYSICAL TRAINING

John L. Goheen, Director for Men.

Nelye M. Dickson, Director for Women.

1. For Men.

The work in this department consists of drills, marching, and progressive exercise with dumb bells, clubs, wands, chest weights, etc., and heavy apparatus work. Out-door field sports are also engaged in. Each student is given a physical examination before entering upon the work. Those who play on the various college athletic teams are exempt from gymnasium work during that portion of the season which such athletic contests cover. Required of the young men.

2 hours, through the Freshman and Sophomore years (4 units).

2. For Women.

The work consists of exercises for correct walking, standing, breathing, poise, and general development. Light apparatus work with dumb bells, wands, Indian clubs, and chest weights will be included in the course. All young women are expected to participate in some out-door sport; either basketball, tennis, or volley ball. Special suits are required for the gymnasium. The Director should be consulted in order that there may be uniformity of costume. Required of the young women.

2 hours, through the Freshman and Sophomore years (4 units).

Schedule

Schedule of Lectures and Recitations

Arabic numerals in the middle of the page refer to courses. Roman numerals refer to sections of classes.

The columns on either side represent days of the week, while the figures show the hours at which recitations are held, 11 standing for 11:20.

L means a laboratory period, which in every case begins at 1 p. m. and ends at 4.

For courses not found in the schedule, hours will be arranged when the classes are formed.

Chapel exercises are held daily at 11 a. m.

First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
11	8			8	Astronomy 1					
					Astronomy 2	11	8			8
9		9			Bible 1 I					
10		10			Bible 1 II					
					Bible 2		9		9	
					Bible 3		10		10	
	10		10		Bible 4					
		8	8		Bible Elective			8	8	
	10		10	L	Botany 1				10	
			L		Botany 2		10		L	L
	10		10	10	Chemistry 1		10		10	10
			L	L	Chemistry 2					
					Chemistry 3	L			L	L
L			L	L	Chemistry 4	L			L	L
	11		11		Chemistry 5		11		11	

SCHEDULE

105

First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
L			L	L	Chemistry 6					
9		9			Chemistry 7					
	L				Drawing 1		L			
				L	Drawing 2					L
		L	L		Drawing 3			L	L	
L					Drawing 4	L				
10		10		10	Economics 1					
					Economics 2	10		10		10
	9		9	9	Economics 3					
					Economics 4		9		9	9
8		8	8		Education 1 or 2					
					Education 3 or 4	8		8	8	
		10		10	English 1 I			10		10
		9		9	English 1 II			9		9
	9		9		English 2 I					
	10		10		English 2 II					
9		9		9	English 6					
					English 7	9		9		9
					English 11	2	2		2	
2	2		2		English 12					
					English 14		10		10	
	1	2	1		English 15					
					English 17		1		1	
8	8	8	8	8	French 1	8	8	8	8	8
	11	11	11		French 2		11	11	11	
	9		9	9	French 3		9		9	9
1		1		1	French 4	1		1		1
9		9			Geology 1					

First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
					Geology 2	9		9		
		L			Geology 3					
					Geology 4			L		
8	8	8	8	8	German 1	8	8	8	8	8
10		10		10	German 2	10		10		10
	11	11	11		German 3		11	11	11	
	9		9	9	German 4		9		9	9
8	8	8	8	8	Greek A	8	8	8	8	8
11	11	11	11	10	Greek 1					
					Greek 2	11	11	11	11	10
3		2		2	Greek 3					
					Greek 6	3		2		2
9		9		1	Greek 11					
					Greek 12	9		9		1
10		10		10	History 1	10		10		10
	2		2	2	History 2		2		2	2
9		9	1		History 3					
					History 4	9		9	1	
1		1		1	History 6	1		1		1
8	8	8	8	8	Latin A	8	8	8	8	8
1		1		1	Latin 1					
					Latin 2	1		1		1
2	2		2		Latin 3					
					Latin 4	2	2		2	
	9		9	9	Latin 7					
					Latin 10		9		9	9
	9		9	9	Mathematics A-B		9		9	9
11	11	11			Mathematics 1					

SCHEDULE

107

First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
					Mathematics 3		11	11	11	
2	2		2		Mathematics 4					
	9		9	9	Mathematics 6	2	2		2	
					Mathematics 8 or 9					
					Mathematics 7 or 10		9		9	9
					Oratory 1	9		9		
	10		10		Oratory 2					
11	8			8	Philosophy 1					
					Philosophy 2	11	8			8
	11	11	11		Philosophy 3					
					Philosophy 4		11	11	11	
	10		10		Physics 1 I		10		10	
	9		9		Physics 1 II		9		9	
	L				Physics 2 I		L			
L					Physics 2 II	L				
11		11		1	Physics 3	11		11		1
		L			Physics 4			L		
8	L	8			Physics 5					
					Physics 6	L	L	8		
10		10		10	Zoology 1	10		10		10
	L	L			Zoology 2					
					Zoology 3		L	L		
9	L	L	9		Zoology 4					
					Zoology 5 or 6	9	L	L	9	

General Information

General Information

REGISTRATION and COLLEGE CREDITS

Registration. On the appointed registration days at the opening of each semester, each student must obtain a registration card at the Registrar's office. This card, properly filled out, must be filed with the Registrar not later than the first Friday of the semester. Students failing to register before that time will pay a registration fee of two dollars. The tuition fee must be paid or its payment arranged for with the Business Manager at the time of registration. A certificate of moral character is required of each applicant for admission.

Enrollment in Classes. A student desiring to enter any class must present to the instructor a certificate of registration for that class. No student will receive college credit for any course for which he has not duly registered.

Change of Studies. Students desiring to change studies after the opening of the semester must present to the classification committee a written petition not later than one month after the beginning of the semester.

Change from one Group to Another. Students

desiring to change from one group to another may do so with the approval of the departments concerned and with the permission of the classification committee, ordinarily not later than the beginning of the Junior year.

Amount of Work. Nineteen unit-hours for Freshmen and Sophomores, and seventeen for Juniors and Seniors, constitute the maximum amount of work for which a student is permitted to register. Twelve unit-hours constitute the minimum amount of work for which a student may register. A student incurring a condition or failure will be limited to fifteen unit-hours during the semester following.

Conditions and Failures. A student incurring a failure in any course will be required to re-register for that course before he can receive credit for the subject. A student incurring a condition in any course must remove that condition within one year under the direction of the instructor; otherwise the condition will be treated as a failure.

FEES AND EXPENSES

Tuition and Fees. The fee for tuition in the College is thirty-five dollars a semester, payable in advance. A fee of five dollars is required of all students for athletics. The College graduation fee is five dollars.

Special fees for the laboratory courses, all payable in advance, are as follows:

	Laboratory Fee	Breakage Deposit
Botany 1, ...	\$3.00	\$...
Botany 2	3.00	....
Chemistry 2	5.00	5.00
Chemistry 3	5.00	5.00
Chemistry 4A.....	5.00	5.00
Chemistry 4B	5.00	5.00
Chemistry 6	7.50	5.00
Chemistry 8	7.50	5.00
Geology 2	5.00	....
Zoology 2	5.00	....
Zoology 3	5.00	....
Zoology 5	5.00	....
Zoology 6	5.00	....

Physics, in any course, \$1.00 per semester hour for laboratory fees, while breakage is charged for according to the amount.

No student will be admitted to the chemical laboratory without a receipt from the Business Manager showing that the breakage deposit has been paid. The balance remaining unused at the end of the semester will be refunded.

Living Expenses. A system of registered lodgings and boarding places provides places of residence for the students at a cost varying from eighteen to twenty-five dollars per month. New students will be provided on their arrival with complete lists of approved rooms and boarding places.

The necessary expenses of the student range from \$275 to \$400.

Students who desire to earn their expenses while

attending the College should register with the Employment Bureau conducted by the Christian Associations. Opportunities for self support among the students are somewhat limited. The number of students who earn their entire expenses is comparatively small.

ATTENDANCE

The College requires of all students regular attendance at the chapel service and at all the classes to which they belong. Students exceeding the limit of absences allowed in any class are given the opportunity of making up the work missed, by taking a special examination. Repeated absences above the limit will result in suspension. A copy of the rules for attendance may be obtained from the Dean.

REGULATIONS GOVERNING SOCIAL LIFE

The College provides places of residence for the students by means of a system of registered lodgings and boarding places. All students must room in places approved by the Faculty, rooms being designated on the registration card and changed only with permission. Students are required to keep reasonable hours and to conduct themselves with propriety at all times. A copy of the rules governing the social life of the College may be obtained from the Dean.

SCHOLARSHIPS

There are nine scholarships, endowed respectively by

Immanuel Presbyterian Church, Los Angeles, Cal.

Presbyterian Church, Glendale, Cal.

Presbyterian Church, Santa Ana, Cal.

Presbyterian Church, Tropico, Cal.

Mrs. Mary A. Shipman.

Mr. J. I. Parsons.

Rev. Francis M. Dimmick.

Mrs. Rhoda N. Hunter and Miss R. N. Files.

Mardy Andrews Clark (endowed by her daughters).

Misses Schaiffer.

The person to receive the benefit of a scholarship may be designated by the donor or by the Board of Trustees. The student to whom the scholarship is assigned receives free tuition.

In addition to those named above, the Horace Cleland Scholarship, recently established by the Alumni Association, is awarded, for the Sophomore year only, to that member of each class who seems best entitled to it on the basis of general merit.

The Cecil Rhodes Scholarships—Competition for these is open to the students of Occidental. Mr. Clarence Arthur Spaulding, class of 1907, after passing the qualifying examinations in January, has been chosen to represent Arizona as Rhodes Scholar at Oxford for the next three years.

ORATORICAL AND DEBATING CONTESTS

Intercollegiate Oratorical Contest. An oratorical contest between the colleges of Southern California is held annually. The preliminary contest at Occidental College is in charge of the students' Oratorical Association. The winner in this contest receives a prize, and represents the College in the Intercollegiate Contest between the University of Southern California, Pomona College, and Occidental College. In the home contest, April 19, 1907, the first prize was won by Mr. Clarence A. Spaulding. The second prize was won by Mr. J. W. Beard.

Oratorical Contest of the Prohibition League. Each year an oratorical contest is held by the students' Prohibition League, which is a branch of the Intercollegiate Prohibition Association. The subjects discussed are connected with the work of temperance reform. In the local contest in February, 1908, Mr. Edmund W. Pugh won the first prize, and Mr. Geoffrey F. Morgan, the second prize. Mr. Pugh will represent the College in the intercollegiate contest of Southern California.

PHYSICAL TRAINING AND ATHLETICS

This department has under its care the general health of the students, and the thorough, systematic development of their physical well being. Its purpose is to check abnormal tendencies, and to promote the health of the students, to develop ready

physical control, and to form correct habits of carriage and action. Each student upon entrance receives a physical examination, which forms the basis for his general development, or for prescribed work where this is needed. Special instruction may be arranged for by any who desire individual corrective work, or by those who are preparing to teach physical training.

The Gymnasium affords ample room for all kinds of indoor exercise. It is equipped with modern apparatus necessary for the best development of the physical man. Adjacent to it are dressing rooms supplied with lockers and shower baths with hot and cold water.

A large athletic field adjoining the men's dressing rooms is admirably adapted to the out-door sports of track, baseball, football, and basketball. An inclosed court adjoining the women's dressing rooms is used especially for the young women's athletic sports, which consist of basketball, tennis, and volley ball.

A number of well kept tennis courts are also located on the campus, and are at the disposal of all students.

The athletic interests of the College are under the care of the Associated Student Body, with the cooperation of the Faculty Committee on Athletics. This supervision extends to baseball, football, track and field sports, and basketball. The Faculty requires of all athletes a high standard of scholarship. Such regulations are in force as are required to secure the best results, physical and moral.

STUDENT ORGANIZATIONS

The Associated Student Body. The purpose of this organization is to control all student enterprises. All Occidental students are eligible to membership. At its organization, the Associated Student Body absorbed the Athletic Association, the Oratorical Association, and the Occidental Publishing Company. These enterprises are now under the direct control of a general manager, and under the general control of an Executive Committee, which is composed of the officers of the Association and of one representative for each of the following interests: Athletics, Oratory, Student Publications, the Academy, the Alumni, and the Faculty.

The receipts of the Associated Student Body are from games, benefits, dues, etc. A special athletic fee of \$2.50 each semester is charged each student by the College, at the request of the students, for the maintenance of physical training work, coaching, etc.

All expenditures must be authorized by the Executive Committee; and every month a full report of all receipts and expenditures, audited by the faculty representative on the Executive Committee, is published.

Christian Associations. The Young Men's and the Young Women's Christian Association are both represented by strong organizations, being supported by a large majority of the students. The weekly meetings of the Associations are largely at-

tended. Classes for systematic Bible study meet regularly.

Interest in missions is very strong, the Student Volunteer movement being well represented in both Associations. The Y. M. C. A. is at present assisting in the work of a former student, now a missionary in China.

Each year the Y. M. C. A. send a delegation to the State conference at Pacific Grove, and the Y. W. C. A., a delegation to Capitola.

An important feature of the work of the Associations is the Student Employment Bureau, which is conducted for the benefit of those desiring to earn their expenses during the college year. An Information Bureau is also conducted by the Associations for the assistance of new students at the opening of the college year.

Literary Societies. The students of the College support three active literary societies: the Stevenson and the Lowell, composed of young men, and the Laurean Literary Society, composed of young women. These societies hold weekly meetings for debating and other literary work.

Glee Club. The Glee Club has, by a second successful season, taken its place among the permanent organizations of the College. Besides furnishing the music at vesper services and other college exercises the club made a vacation trip and several single-night trips to surrounding towns. The club thus contributes in no small degree to the social life of its members and to the musical interests of the College.

Membership is open to men both of the College and the Academy and is based upon ability displayed in competitive trials at the opening of the school year.

STUDENT PUBLICATIONS

The Occidental, the College newspaper, appears each week. It is edited and managed by students of the College. An annual, La Encina, is published in May by the Junior class. A handbook of information is issued at the beginning of each year by the Y. M. C. A.

FORM OF BEQUEST

Those intending to devise property to Occidental College are requested to use the following form: "I hereby give, devise and bequeath unto the Occidental College of Los Angeles, State of California, the sum of Dollars."

For property other than money the form should be correspondingly varied.

ACADEMY

Faculty

Robert J. Caskey, M. A.,
Principal.
Bible and Mathematics.

Charles B. Moore, M. A.,
Assistant Principal and Registrar.
English.

Alice R. Moore, A. B.,
English.

Anna C. Latimer, A. B.,
Mathematics.

Samuel W. Peterson, A. B.,
History.

Mary W. McPeak, A. B.,
Latin and Greek.

Mabelle L. Morgan, M. A.,
Latin.

Frederick G. Miller, M. A.,
French and German.

S. Herbert Anderson, M. A.,
Science.

Percy Bailey Goodell, B. S.,
Instructor in Botany and Physiography.

General Statement

AIM AND SCOPE

The principal aim of Occidental Academy is to provide thorough preparation for Occidental College and for other high-grade colleges and universities. At the same time, the courses of study are so arranged as to afford a well-rounded education for those pupils who do not purpose continuing their studies in college or university.

Three distinct courses, Classical, Literary and Scientific, are offered, each covering four years.

MANAGEMENT

While Occidental Academy has a faculty and organization distinct from Occidental College, it is under the same general management, and enjoys the same equipment and surroundings. The two faculties and student bodies come together once every week in a joint assembly in the College Chapel, and on these occasions are given the opportunity of hearing many noted speakers.

ADMISSION

All candidates for admission must present satisfactory evidence of good moral character, and of

good standing in the schools from which they come.

When practicable, it is always desirable that an applicant registering for first or second year work be accompanied by a parent or guardian. There are options as to courses and studies which should not be left to immature and inexperienced pupils.

To be admitted to the first year class of the Academy, an applicant must have completed the work required of eighth grade pupils in the public schools of the State. The candidate must present a certificate showing that he has done the required work, or pass a satisfactory examination in English grammar, in arithmetic, and in United States history.

To be admitted to any advanced class, an applicant must have done the work previously covered by the class, or its equivalent. Credits for such work from other schools of equal standing will be accepted, but when such credits can not be produced, the applicant will be examined upon the work covered.

The classification of a pupil, based upon credentials and credits from other schools, must always be considered provisional, and subject to changes in accordance with his scholarship and ability as demonstrated by his subsequent work in class room.

A candidate may register for studies selected from the regular courses, within certain limitations and with the approval of the Academy Registrar, being classified as a special, but the minimum amount of work for which any pupil will be registered is fifteen hours per week.

RECORDS AND REPORTS

A careful record is kept of the scholarship, attendance, and punctuality of each pupil, and a report of his standing is made to his parents or guardian four times during the school year. To retain a standing in the school, a pupil must do passing work in the subjects which he is carrying. Continued failure in scholarship, or unnecessary irregularity in attendance or punctuality, will be considered sufficient ground for dropping a pupil from the Academy roll.

GRADUATION AND DIPLOMAS

A pupil of good character and standing, who has completed satisfactorily one of the prescribed courses, is entitled to a diploma of the Academy specifying the course completed.

A pupil having taken part of his course in another institution can not claim a diploma from Occidental Academy unless he has been in attendance one full year.

EQUIPMENT

Academy Building

The Academy Building, an attractive piece of classic architecture, stands in the midst of well-kept lawns, flower-beds, shrubbery, and trees. Surrounding a central corridor, which is beautifully lighted from above, and decorated with potted plants and hanging-baskets, are ample class rooms and the offices of the Principal and the Registrar. Immedi-

ately back of these is the fine new study hall, an airy, well-lighted room with high ceiling, and capable of accommodating two hundred and fifty pupils.

Laboratories and Apparatus

The Academy is well equipped with laboratory facilities for work in the natural science courses.

The Botany and General Science laboratories are located in the Academy building. The former is furnished with compound and dissecting microscopes for the use of pupils in the study of plant structure, and with a complete assortment of apparatus, including the very latest forms, for the study of the functions and habits of plants.

The General Science laboratory is equipped for a variety of experiments and demonstrations introducing the pupil to the fundamental facts and laws of nature.

One of the College Chemistry laboratories, fully equipped with chemicals, apparatus and individual lockers, is used by Academy classes.

The Physical laboratory used by the Academy is a well appointed room in the main College building, where all the apparatus of the department of Physics in the College is accessible for class demonstration and individual experiment.

Library and Athletic Field

The library, athletic field, tennis courts, gymnasium, basketball courts, etc., are all open to Academy pupils on the same terms as to College students.

REGULATIONS

Attendance

Regular attendance at all sessions of the school is required of Academy pupils. No provision is made for absence from any recitation of the class or section to which a pupil belongs. The "cutting" of any recitation, laboratory period, study hall period, chapel exercise or joint assembly by an Academy pupil will subject the pupil to discipline. If necessary, for any cause, to leave the school before the close of a session, a pupil must first secure permission from the principal or assistant or some teacher, and, except in case of sickness or emergency, such permission will ordinarily be granted only on request of a parent or guardian.

Punctuality

Habitual tardiness on the part of any pupil will not be tolerated. The interruption occasioned by the entrance of a pupil after the school session has begun is an injustice to all the pupils present. Every reasonable means will be used to protect the school from such interruption, and, at the same time, to inculcate the habit of punctuality in the individual pupil.

SYNOPSIS OF COURSES

The figures indicate the number of recitations per week. The recitation period in the Academy is 45 minutes, two periods in the laboratory counting as one. In addition to the work outlined below each student in the Academy is required to devote two periods per week to physical training under one of the Directors of physical training.

	Classical			Literary			Scientific	
	First Semester	Second Semester		First Semester	Second Semester		First Semester	Second Semester
1st Year	Bible 1 English 5 Latin 5 Algebra 5 Ancient History . . . 5	Bible 1 English 5 Latin 5 Algebra 5 Ancient History . . . 5		Bible 1 English 5 Latin 5 Algebra 5 Ancient History . . . 5	Bible 1 English 5 Latin 5 Algebra 5 Ancient History . . . 5		Bible 1 English 5 Latin 5 Algebra 5 General Science. . . 5	Bible 1 English 5 Latin 5 Algebra 5 General Science. . . 5
2d Year	Bible 1 English 5 Latin 5 Med. Hist. or Gen. Science or Botany 5 Plane Geometry. . . 5	Bible 1 English 5 Latin 5 Med. Hist. or Gen. Science or Botany 5 Plane Geometry. . . 5		Bible 1 English 5 Latin 5 Med. Hist. or Gen. Science or Botany 5 Plane Geometry. . . 5	Bible 1 English 5 Latin 5 Mod. Hist. or Gen. Science or Botany 5 Plane Geometry. . . 5		Bible 1 English 5 Latin 5 Botany or Med. History. . . 5 Plane Geometry . . . 5	Bible 1 English 5 Latin 5 Botany or Mod. History. . . 5 Plane Geometry . . . 5
3d Year	Bible 1 Latin 5 Greek 5 Algebra 5 U. S. History . . . 5	Bible 1 English 5 Latin 5 Greek 5 U. S. History. . . . 5		Bible 1 Latin* 5 Algebra 5 French or German 5 U. S. History. . . . 5	Bible 1 English 5 Latin 5 French or German 5 U. S. History. . . . 5		Bible 1 Chemistry 5 Solid Geometry . . . 5 French or German 5 U. S. History. . . . 5	Bible 1 Chemistry 5 Solid Geometry . . . 5 French or German 5 U. S. History. . . . 5
4th Year	Bible 1 English 5 Latin 5 Greek 5 Physics 5	Bible 1 English 5 Latin 5 Greek 5 Physics 5		Bible 1 English 5 Latin 5 French or German** . . . 5 Physics 5	Bible 1 English 5 Latin 5 French or German** . . . 5 Physics 5		Bible 1 English 5 Adv. Arith. 5 French or German** . . . 5 Physics 5	Bible 1 English 5 Trigonometry . . . 5 French or German** . . . 5 Physics 5

*In the Literary course, two years of Greek may be substituted for the last two years of Latin; or a year's work in some other subject may be substituted for the last year of Latin, subject to the approval of the Classification Committee.

**In the Literary and Scientific courses the language chosen in the third year must be continued through the fourth.

Departments of Instruction

BIBLE

The Academy provides a Bible course of one hour per week throughout the four years, which is required of all pupils. The Bible itself is the text-book used. The American Standard is the text preferred. The aim of this course is to give a comprehensive knowledge of the contents of the Book. The divisions under which the ground is covered are as follows :

First Year. Classification of the books of the Old and New Testaments. The Pentateuch.

Second Year. The Conquest of Canaan and the History of the Hebrew Nation to the Division of the Kingdom.

Third Year. History of Israel to the Fall of Samaria. History of Judah to the Fall of Jerusalem. The Captivity. The Restoration. The Prophets—the man and the message.

Fourth Year. The Life of Christ. The Founding of the Christian Church. The Life and Journeys of St. Paul.

ENGLISH

The general aim of the English course is to extend widely and pleasurably the pupil's acquaintance with good books and to give him a fair degree of accuracy and fluency in the expression of his ideas in speech and in writing.

English is required of all students in all courses during first, second and fourth years. Owing to the pressure of other requirements it is omitted from a semester of third year in two courses, and from the entire third year of scientific course.

In the first two years stress is laid upon work in composition with the literature incidental and supplemental. The first semester of fourth year is the final test of the student's ability in composition. No student will receive final English credits who does not do satisfactory work in this course. The second semester of the fourth year contains the most important of the college entrance requirements in literature. A total of two full years is given to composition, oral and written. The remainder of the time is devoted to literature. All English classes meet five periods a week.

First Year. First Semester. Review of essentials of grammar, two periods a week. Composition, based upon Scott and Denny's Elementary English Composition, three periods a week. Lessons I-XX Daly's Rational Speller.

Second Semester. Composition, two periods a week. Lessons XX-XL Daly's Rational Speller. Literature, three periods a week: Lay of the Last

Minstrel; Ivanhoe; Selections from Irving and Hawthorne.

Supplementary Reading. Stevenson, Treasure Island; Hale, A Man Without a Country; Bunyan, Pilgrim's Progress; Hughes, Tom Brown's School Days; Arnold, Sohrab and Rustum; Shakespeare, As You Like It.

Second Year. First Semester. Composition and Rhetoric. Literature: Julius Caesar, Lays of Ancient Rome.

Second Semester. Composition and Rhetoric continued. Literature: Merchant of Venice; Tale of Two Cities.

Supplementary Reading. Lowell, Vision of Sir Launfal; Lamb, Essays of Elia; Franklin, Autobiography; Selections from American Poets.

Third Year. Second Semester. (Classical and literary courses). Literature: Carlyle, Essay on Burns; Eliot, Silas Marner; Goldsmith, Deserted Village; Coleridge, Ancient Mariner; Tennyson, Coming of Arthur, Gareth and Lynette, Lancelot and Elaine, Passing of Arthur.

Supplementary Reading. Irving, Life of Goldsmith; Emerson, American Scholar; Lowell, Commemoration Ode.

Fourth Year. First Semester. Composition course. Three themes a week. Review and application of principles of composition and rhetoric.

Second Semester. Outline of great periods of English Literature. Literature: Shakespeare, Macbeth; Milton, L'Allegro, Il Penseroso, Lycidas, Comus; Burke, Speech on Conciliation with America.

Supplementary Reading. Macaulay, Essay on Milton; Thackeray, Henry Esmond.

LATIN

First Year. Correct pronunciation, accurate knowledge of forms, a reasonable vocabulary, and familiarity with the underlying principles of Latin syntax constitute the aim of the first year's work. The translation of easy sentences from English into Latin and from Latin into English is accompanied by daily drill on inflexions and review of the ground already covered. Collar and Daniel's "First Year Latin" is used as a text-book.

Second Year. While translating four books of Caesar a thorough study of syntax is made, involving the frequent turning into Latin of English sentences based on the text read. Forms are reviewed and a limited amount of sight reading is undertaken. The plan of Caesar's campaigns, as well as the Roman art of warfare in general, is given as much attention as can be spared at this stage in the acquisition of a new language. In connection with this course and the two which follow, the Latin Grammar is in daily use.

Third Year. Cicero's orations against Catiline, for the Manilian Law, and for the poet Archias furnish the basis for the work of the third year. Practice in Latin composition is maintained, with closer attention to synonyms, order of words, and idiomatic forms of expression than before. Sight reading from advanced portions of the text or from the

author's other works claim a share of the time. Additional topics for study are found in the topography of Rome and the political movements of the Ciceronian period.

Fourth Year. This course covers the first six books of Vergil's Aeneid. The student is supposed to have reached a stage where he can begin to appreciate some of the finer qualities of a great classic. While keeping up the drill on grammatical principles, special effort is made to catch the spirit of the epic and bring out those touches of poetic beauty and power in which the Aeneid abounds. Quantity and versification are studied until the pupil is able to read the hexameter with ease and to use his knowledge as a practical corrective in translation. Sight reading, from passages in Vergil or other authors, is not neglected. Composition is continued, based on the authors previously read.

GREEK

For some of the higher professions, as well as for some of the more popular academic degrees, a knowledge of the Greek language and literature is a prerequisite. Two years of Greek are offered in the classical course of the Academy.

First Year. The first year is devoted to acquiring a thorough knowledge of the forms, syntax, and structure of the language. White's First Greek Book constitutes the basis for the year's work, with some readings from the Gospel of John.

Second Year. Four books of Xenophon's Anabasis are read during the second year, and a thor-

ough drill in prose composition constitutes an important part of this year's work.

FRENCH

First Year. The work comprises a thorough drill in the fundamental rules of grammar with copious written and oral exercises. The regular verbs and the most common irregular verbs are studied. Very simple texts are read and used as the basis of conversation.

Second Year. The work comprises a review of the grammar, the study of the irregular verbs, the uses of the subjunctive. Frequent written exercises in the advanced grammar are required. About 200 pages of modern prose are read. Easy composition is introduced, and conversation based on the selections read.

GERMAN

First Year. Elementary training in German grammar, correct reading, easy composition, poetry, translation of plays, conversation.

Second Year. Grammatical drill, including elements of syntax and the use of the subjunctive. Reading of easy literature of Schiller, Lessing, etc. Poetry, selections from standard writers. Composition, vocabulary drill, conversation.

HISTORY

In all history courses the study of the text-book is supplemented by collateral reading and the prep-

aration of outlines, notes, maps, and papers relating to the subject, the amount of this work gradually increasing from year to year. The Academy possesses a fair working library for the study of this subject.

Ancient History. (a) Greece and the East, with particular emphasis upon Greek history and civilization from the fifth to the second century B. C. (b) Rome and the West, to the time of Charlemagne; special attention is directed to the period from the conquest of Italy to the establishment of Christianity.

Mediaeval and Modern History. (a) Mediaeval Europe from Charlemagne's empire to the Reformation, with special emphasis upon Mediaeval institutions and the struggle between the Papacy and the Empire. (b) Modern Europe from the Reformation to the twentieth century; about half the time is devoted to the period from the French Revolution to the unification of Germany.

American History and Civics. (a) Colonial America to the establishment of the government under the Constitution. (b) History and Government of the United States under the Constitution.

MATHEMATICS

First Year. Elementary Algebra. The year is devoted to the principles and problems prescribed in the up-to-date text-books for secondary schools through the subject of Involution and Evolution. Special attention is paid to the application of such

principles as will be involved in problems arising in subsequent studies, such as geometry, physics, etc.

Second Year. Plane Geometry. The ground covered during the year is the entire set of theorems for demonstration ordinarily prescribed by text-books for secondary schools, and a very large number of problems for original demonstration, solution or construction.

Third Year. First Semester. Elementary Algebra completed. Beginning with a review of Involution and Evolution, the work of the text-book used the first year is completed. The ground covered includes the theory of exponents, quadratic equations, equations in the quadratic form, the principles of series and the binomial theorem.

Third Year. Second Semester. Solid Geometry. The fundamental theorems of solid geometry, involving the mensuration of prisms, pyramids, the cylinder, the cone and the sphere, are completely covered by this course.

Fourth Year. First Semester. Advanced Arithmetic. In this course is contemplated a thorough review of the practical principles of arithmetic, with a great deal of work on problems involving fractions, common and decimal, compound numbers, the metric system, percentage, proportion, mensuration and evolution.

Fourth Year. Second Semester. Plane Trigonometry. This course contemplates the develop-

ment and application of the general formulae of elementary trigonometry, the theory and use of logarithms, and the solution of plane triangles and practical trigonometrical problems.

SCIENCE

General Science. The aim of the course is two-fold: to lay the foundation for future scientific work, and to serve as an important factor in a general education. By training the student to experiment carefully, to interpret intelligently both experiment and daily phenomena, and thus to grasp the fundamental principles and processes which underlie all natural science, this aim is accomplished.

In the course will be considered the important chemical and physical laws and facts which have a close relation to the more interesting and characteristic parts of biology, physiology, geology and astronomy.

Five daily exercises a week are required, two of which are double periods for laboratory work. A neat record of experiments performed and conclusions reached is a very important feature of the work.

Botany. A full year's work of eight periods per week on the general morphology and field work. Plants are studied to be explained and not simply to be classified. The student is encouraged to ask and determine the why and wherefore of all subject matter under his notice. Each student is required to keep a note book containing accurate drawings, observations and conclusions. Bergen's Elements

of Botany and Osterhout's Experiments are used as guides.

Chemistry. This is a course in general Chemistry, the purpose of which is to ground the student in chemical technique and principles. Seven periods a week are required, four of which are employed in experimental work, an accurate record of which is required. Quantitative features of the work are emphasized in the experiments and by problems, for the understanding of which a thorough grounding in arithmetic and elementary algebra is necessary.

Physics. This course covers the elements of mechanics, heat, sound, light, electricity and magnetism. A wide range of phenomena is presented and the fundamental laws and principles are thoroughly studied in laboratory and class room. Each student keeps a neat and well-written note book containing the observations and results of his experiments and such individual discussions and conclusions as are required to explain properly what has been obtained. The student is expected to think independently, logically and conclusively, and to express himself with accuracy. A year and a half of algebra and a year of geometry are prerequisites for the proper comprehension of the quantitative relations in physics. The work is made as concrete and practical as possible. Numerous problems are given requiring the student to reason carefully, to think vigorously, and to apply knowledge gained from laboratory, demonstration, lecture, text, and daily experience.

PHYSICAL TRAINING

The same facilities are offered to students of the Academy as to those of the College. Physical examinations are given, and as this is the formative period, special care is taken that all exercises shall be such as will insure a strong foundation for the physical well-being. The work with the first two classes is of a simple elementary nature. Special attention is given to simple drills, marching, running, etc., and to games. Only very light apparatus work is undertaken. That required of the upper classes is more advanced, being of such a nature as will prepare them for the work to be done in the collegiate department. The young ladies have the same privileges in the use of the enclosed court for tennis, basketball, and volley-ball as the young ladies of the College. Required of all Academy students, two periods a week through the year.

General Information

ENTRANCE EXAMINATIONS

Every candidate for admission by entrance examinations should be on hand at the Academy building on the date set in the calendar for such examinations.

REGISTRATION

The Academy Registrar has an office in the Academy building, where all candidates for admission should make application before the date of opening. Upon registering, a pupil will be furnished with a registration certificate showing the subjects for which he has registered. This certificate, signed by the Registrar of the Academy and the Business Manager, will entitle the bearer to enrollment in the classes specified.

EXPENSES

All fees are payable by the semester, in advance, and are as follows:

Required of each pupil	{ Tuition \$35.00
	{ Athletic fee.. 2.50

Laboratory fees ..	{	General Science.....	\$2.50
		Botany.....	3.00
		Chemistry.....	5.00
		Physics	3.00
Breakage deposit for Chemistry.....		5.00	
Graduation fee.....		2.00	

Living expenses for Academy pupils are the same as for College students. See statement in College section of catalogue.

STUDENT INTERESTS

Literary Societies

Two literary societies are maintained by the Academy pupils, each holding weekly meetings in the Academy building.

The Moore Literary Society is composed of boys, and gives special attention to debating. It has been in existence three years, and has a very creditable record.

The Alethean Society is a new organization composed of girls, and promises to be a worthy colleague of the older society.

Debate and Oratory

Occidental Academy is a member of the Debating League of Southern California. During the past year William Cumberland and John Bickford represented the Academy in the debate with Pomona High School, Kyle Grainger and Millage Montgomery in the debate with Monrovia High School, and Kyle Grainger and John Bickford in the debate with Pasadena High School.

The Academy is also a member of the Interscholastic Oratorical Association.

Associated Student Body

It has been decided that the Academy pupils shall maintain a separate organization corresponding to the Associated Student Body of the College, which shall have charge of such activities in the Academy as athletics, oratorical contests, debates, etc.

The Christian Associations of the College are open to Academy pupils on the same terms as to College students, and a large number of the pupils are members and attend the meetings.

Academy boys are eligible to membership in the Occidental Glee Club, a very popular and important student organization.

The Academy is represented on the editorial staff of *The Occidental*, the College weekly, and one page of each issue is devoted to Academy interests.

Officers of
THE
Alumni Association

President.....Daniel S. Hammack
Vice-President.....Genevieve M. Cumberland
Secretary.....Margaret S. Herskovits
Treasurer.....Robert G. Cleland

Executive Committee

OF THE

Associated Student Body

Watson B. Burt	President
Bertha Boal	Vice-President
Bessie M. Buck	Secretary
Edmund W. Pugh	Treasurer
Dean Ward.....	Faculty Representative
William E. Roberts.....	Oratorical Representative
Walter R. Crane.....	Athletic Representative
Kauffman L. Carver.....	Academy Representative
Geo. F. Conrad.....	The Occidental Representative
Frances W. Gordon.....	Alumni Representative

Alumni

1893.

Maude Bell (Mrs. F. R. Bear).....Tropico, Cal.
Martha Thompson (Mrs. Thos. Coyle).....
.....Princeton, N. J.

1894.

Donald K. Cameron, B. L., Civil Engineer....
.....Baltimore, Md.
H. Percy Dilworth, B. L., Rancher.....
.....Sierra Madre, Cal.
Floy K. Roberts (Mrs. A. N. Jung), B. A.,....
.....809 Green St., Los Angeles, Cal.

1895.

Alphonso E. Bell, B. A., Rancher.....
.....Santa Fe Springs, Cal.
Rev. Donald M. Brookman, B. A., Minister....
.....Palo Alto, Cal.
Leslie E. Lynn, B. A., Planter.....
.....San Carlos, Costa Rica
William E. Parker, B. A., Attorney.....
.....Guaymas, Sonora, Mex.

1896.

George Byram, B. S., Rancher.....Glendale, Cal.
Walter V. E. Thompson, B. S., Real Est. Agt..
.....2515 Stanford Ave., Los Angeles, Cal.

1897.

Helen Harris, B. S., Teacher.....Chicago, Ill.

Pedro Recio, B. A., Teacher...Chihuahua, Mexico

1898.

Rev. Edward H. Miller, B. A., Missionary....

.....Seoul, Korea

1900.

Amy Pressley Gordon, B. L.....

.....4811 Pasadena Ave., Los Angeles, Cal.

Grace Marie Lowder, B. A.....

.....3026 Melvin St., Los Angeles, Cal.

Alfred Solomon, Professor University Califor-

nia Berkeley, Cal.

1902.

Rev. Dwight C. Chapin, B. A., Missionary.....

.....Paotingfu, North China

Isabel Crowell, B. L., M. D., Physician.....

.....Monrovia, Cal.

Harry C. Dane, B. S., Accountant.....

.....1959 W. Washington St., Los Angeles, Cal.

Laura Mosher (Mrs. Silas Johnson), B. L., Mis-

sionary.....Batanza, West Africa

Mabel R. Patty (Mrs. Thos. Ogden), B. L.....

.....Redlands, Cal.

Dorothea E. Lewis (Mrs. Dwight Potter), B. A.

.....Oakland, Cal.

1903.

*Rev. T. Horace Cleland, B. A....Long Beach, Cal.

*Deceased.

Helen Howe, B. S., Teacher.....Berkeley, Cal.
 Fred H. Schauer, B. L., Attorney.....
Santa Barbara, Cal.
 Edward H. Solomon, B. A., Teacher.....
375 W. Ave. 51, Los Angeles, Cal.

1904.

Arthur W. Buell, B. S., M. D., Physician.....
New York City, N. Y.
 Loua L. Gorham, B. A., Teacher.....
Santa Barbara, Cal.
 Augustus Roy Thompson, B. S., Mission Work
Stites, Idaho

1905.

Percy Bailey Goodell, B. S., Teacher.....
797 E. Orange Grove Ave., Pasadena, Cal.
 Daniel Stewart Hammack, B. A., Attorney....
144 E. Ave. 55, Los Angeles, Cal.
 Margaret S. Herskovits, B. L., Teacher.....
926 Blaine St., Los Angeles, Cal.
 John Robinson Jeffers, B. A., Student U. S. C.
 Med. School..1623 Shatto St., Los Angeles, Cal.
 Bertha Evelyn James, B. L., Teacher.....
757 Earlham St., Pasadena, Cal.
 Irwin McKee, B. A., Surveyor.....
138 W. Ave. 55, Los Angeles, Cal.
 Eleanor Estelle McClung, B. L.....
5138 Pasadena Ave., Los Angeles, Cal.
 Clara Florence Meader, B. A., Teacher.....
San Diego, Cal.
 Lelia Wiatt Quinby, B. L., Mission Teacher..
Barranquilla, Colombia

Julia Katrina Winn (Mrs. Walter C. Erdman),
 B. L., Missionary.....Taiku, Korea
 George Hinsdale Winn, B. A., Theolog. Stud.
 Omaha, Neb.

1906.

Edwin Hodge Crabtree, B. A., Teacher.....
San Diego, Cal.
 Edna D. Cumberland (Mrs. W. E. Roberts),
 B. L.....4930 Granada St., Los Angeles, Cal.
 Genevieve M. Cumberland, B. L., Teacher.....
131 W. Ave. 51, Los Angeles, Cal.
 Ernest John Cummings, B. A., Rancher.....
Carpenteria, Cal.
 Rebecca Pearl Ellis, B. L., Teacher..Whittier, Cal.
 Margaret Gordon Grant, B. A.....
138 Roselawn Drive, Los Angeles, Cal.
 John Percival Hagerman, B. L., Y. M. C. A. Sec.
Lawrence, Kans.
 Philip Benjamin Kennedy, B. L., Student.....
Beloit, Wis.
 Sidney McKee, B. L., Theological Student....
San Anselmo, Cal.
 James McMichael, B. A., Theological Student..
Winnebago, Ill.
 Carl Wallace Petty, B. L., Theological Student
Rochester, N. Y.
 Edith Catherine Powell (Mrs. Harry Raney),
 B. L.....Azusa, Cal.
 George Nye Steiger, B. A., Teacher.....
Shanghai, China
 Mattie Ethelyn Wakefield, B. S., Pasadena
 Library.....287 Lincoln Ave., Pasadena, Cal.

Frances Grace Webster, B. A., Teacher.....
1427 N. Mentor St., Pasadena, Cal.
 Clyde Lynn Earl Wolfe, B. S., Harvard Univ..
Cambridge, Mass.

1907.

Frank Peer Beal, B. L., Real Estate Agent....
Inglewood, Cal.
 John Wesley Beard, B. L., Theological Student
Omaha, Neb.
 Robert Henry Blee, B. S., Chemist..Soda Lake, Cal.
 Vera Howard Brooke, B. A., Teacher.....
138 E. Ave. 58, Los Angeles, Cal.
 Robert Glass Cleland, B. A., Student.....
Long Beach, Cal.
 Charles Herbert Cleveland, B. L., Undertaker..
Long Beach, Cal.
 Howard Clever, B. S., Rancher.....Fullerton, Cal.
 Mamie Katherine Daniel, B. L., Student.....
315 W. 2nd St., Los Angeles, Cal.
 Harry Sloan Dukes, B. L., Student Univ. Cal..
2422 E. 3rd St., Los Angeles, Cal.
 Bessie Louise Field, B. L., Student Univ. Cal.
5311 Monte Vista St., Los Angeles, Cal.
 Theodore Fulton, B. L., Teacher.....
2272 W. 29th St., Los Angeles, Cal.
 Frances Wallace Gordon, B. L.....
4811 Pasadena Ave., Los Angeles, Cal.
 Marie Alden Hopkins, B. A., Teacher.....
Fullerton, Cal.
 Elizabeth Anne Horton, B. L., Student L. A.
 Normal..1025 San Pasqual Ave., Pasadena, Cal.
 Abigail Lucinda Lane, B. L., Teacher..Ames, Okla.

Laura Matilda McGaugh, B. L.....Rivera, Cal.
 Anna Montella McKee, B. A.....
426 S. Boyle Ave., Los Angeles, Cal.
 Samuel Clark McKee, B. A., Theolog. Student
San Anselmo, Cal.
 Fairy Abiah Means, B. L.....
605 W. Ave. 56, Los Angeles, Cal.
 Lilian Maria Merrill, B. L., Teacher.....
5323 Pasadena Ave., Los Angeles, Cal.
 Ysabel Mordy, B. L., Teacher.....Laguna, N. M.
 Maud Imogene Muratt, B. A., Student Univ.
 Cal.....845 E. 29th St., Los Angeles, Cal.
 Bessie May Pope, B. A., Student Univ. Cal....
2913 Downey Ave., Los Angeles, Cal.
 Harriet Alice Snyder, B. L., Teacher.....
817 E. Walnut St., Pasadena, Cal.
 Clarence Arthur Spaulding, B. L., Real Estate
 Agent.....Phoenix, Ariz.

Register of Students

C DENOTES CLASSICAL COURSE ; L, LITERARY ; S, SCIENTIFIC

COLLEGE

SENIORS

Bachtell, Ray William (L).....Medina, O.
Berry, John Clement (C).....Los Angeles
Boal, Bertha (L).....Los Angeles
Brown, Nino (L).....Los Angeles
Bubach, Myrtle Minnie (L).....Pasadena
Buck, Bessie Marie (C).....Los Angeles
Burt, Watson Beebe (C).....South Pasadena
Chapin, Edward Dwight (L).....Los Angeles
Chapin, Theodore (S).....Los Angeles
Crane, Walter Raymond (S).....Santa Susana.
Darling, Katherine Maud (C).....Pasadena
Darling, Mae Alice (C).....Pasadena
Demaree, Carey (L).....Orosi
Gage, Harriet Hardin (L).....Los Angeles
Gall, Alice Margaret (C).....Santa Ana
Gordon, James Hazen (S).....Bostonia
Harris, Annie Louise (L).....Ione
Hoogestraat, William Otto (S).....Arcadia, Ia.
List, Charles Wolfe (L).....Los Angeles
McKean, Marla Faye (L).....Santa Ana
Merrill, David Bruce (L).....Los Angeles
Naismith, Janet Florence (L).....Los Angeles

Pierce, Mary Frances (L).....	Pomona
Raney, Harry Blackburn (L).....	Los Angeles
Smith, James Merle (L).....	Santa Ana
Spring, Arthur Logan (S).....	Los Angeles
Thomas, Mary Emma (C).....	Pasadena
Wiggins, Pearl (S).....	Los Angeles

JUNIORS

Amidon, Marion La Vergne (L)....	Painesville, O.
Annin, Harriet Louise (L).....	Los Angeles
Bartram, Clara Serena (L).....	Los Angeles
Blee, Clarence Earl (S).....	Los Angeles
Blee, Harry Harmon (S).....	Santa Ana
Catlett, Winnifred Frances (L)....	Estelline, S. D.
Chapman, Paul Garthwright (C).....	Norfolk, Va.
Conrad, George Francis (C).....	San Bernardino
Davis, Anna Beulah (L).....	El Modena
Elliott, Paul Clinton (L).....	Long Beach
Flanders, Carrie Eleanor (L).....	Los Angeles
Hackett, Helen Elizabeth (L)....	Fort Wayne, Ind.
Hillis, Earl Douglass (C).....	Riverside
Holley, William Logan (C).....	Los Angeles
Hoogestraat, Christine Vive (L).....	Arcadia, Ia.
Johnson, John Cherry (S).....	Los Angeles
Knudson, Maude Eleanor (C).....	Los Angeles
Lee, Ella (L).....	San Jose
Lee, Etta (L).....	San Jose
Lodwick, Leona (L).....	Los Angeles
Lowe, Edna Frances (L).....	Los Angeles
MacKalip, Hannah Lois (C).....	Los Angeles
Morrison, Clarence Eugene (C).....	Los Angeles
Norton, Susie Ida (L).....	Monrovia
Patterson, Jessie Eizabeth (L).....	Glendale

Phillips, Leah Annette (L)	Los Angeles
Proctor, Henry, Jr. (S)	Santa Paula
Rankin, Herbert Palmer (S)	Santa Ana
Rice, Marie Luella (L)	Phoenix, Ariz.
Roberts, William Everett (L)	Los Angeles
Rush, Frank Neill (S)	Alhambra
Smart, Janet Eliza (L)	Santa Ana
Strobridge, Eloise (L)	Los Angeles
Thomas, Harry Bryson (C)	Los Angeles
Thomas, Samuel Pierce (S)	Los Angeles
Thomson, Henry Lyon (C)	Los Angeles
Whitcomb, Grace Elinor (L)	Los Angeles
Thacker, Roy Herbert (S)	Lordsburg
Weller, Earle Vonard (C)	Los Angeles

SOPHOMORES

Bailey, Nellie May (L)	Rialto
Bathgate, Violet May (L)	Orange
Bercovitz, Nathaniel (L)	Los Angeles
Bickford, Claribel Louise (L)	Pasadena
Bird, Owen Robert (S)	Pasadena
Blee, Mary Edna (C)	Santa Ana
Bond, Lilliard Ray (L)	Santa Paula
Breuchaud, Miriam (C)	Los Angeles
Byers, Bertha Viola (L)	Pasadena
Campbell, Sophia Bell (L)	Santa Maria
Church, Max Albert (L)	Los Angeles
Clark, Flora May (L)	Fallbrooke
Crawford, Julia Etta (L)	Tustin
Cumberland, Esther Claire (S)	Los Angeles
Davenport, Blanche Louise (L)	Tropico
Dingman, Beulah Edna (C)	Monrovia
Fink, Walter Philip (C)	Los Angeles

Fisher, Muriel Douglass (L).....	South Pasadena
Foote, Harriet Ruth (L).....	Los Angeles
Gardner, Alva Lucia (L).....	South Pasadena
Garth, John Goodall (L).....	Los Angeles
Heath, Sara (L).....	Vineland
Hillery, Horace Everett (L).....	Los Angeles
Jepson, Gail Dubois (L).....	Pasadena
Leighton, Edna May (L).....	Long Beach
Lowe, Mary Elizabeth (L).....	Los Angeles
McDougal, Jean (C).....	Monrovia
McDowell, Charles (L).....	Los Angeles
McKean, Della Rae (C).....	Santa Ana
Medlock, Velda Adams (L).....	Santa Ana
Mee, Charles Putman (S).....	Los Angeles
Merrill, Grayson (C).....	Los Angeles
Morgan, Geoffrey Francis (L).....	Los Angeles
Peebles, Margaret Louise (L).....	Los Angeles
Pellegrin, Harold (C).....	Los Angeles
Rice, Lulu Byrd (L).....	Phoenix, Ariz.
Rowley, Grace May (C).....	Santa Ana
Saviers, Olive Irene (L).....	Oxnard
Snively, Ruby Bernice (L).....	Oxnard
Thomson, Fredrick Clifton (C).....	Los Angeles
Thomson, Williel, Jr. (C).....	Los Angeles
Trowbridge, Verona Merry (L).....	Los Angeles
Waddell, Katherine Getty (L).....	Santa Ana
Young, Arthur Nichols (C).....	Los Angeles

FRESHMEN

Anderson, Norbert Lee (L).....	Los Angeles
Annin, Roswell Howard (S).....	Los Angeles
Backus, Myrtle Elinor (C).....	Los Angeles
Baer, George Van Dusen (C).....	Pasadena

Baskerville, Helen Lydia (L)	Los Angeles
Brandt, Robert Percy (C)	Fishrock
Brower, Clarence Prime (L)	Hollywood
Brown, Anita (C)	South Pasadena
Chamberlin, Edna Louise (L)	Los Angeles
Chase, Rosalind Jovela (L)	San Diego
Cist, Beth (C)	Los Angeles
Clark, Marian Weller (L)	Minneapolis, Minn.
Clemens, Paul McTeer (L)	Caldwell, Ida.
Cochrane, Mildred Louise (L)	Los Angeles
Collins, Arthur (L)	Santa Ana
Crinklaw, Lou Elizabeth (L)	Los Angeles
Douglas, Clifford Alden (C)	Fullerton
Echard, Rodwell (L)	Los Angeles
Edwards, Mary Bartee (L)	Los Angeles
Elton, Murray Stevens (S)	Los Angeles
Faries, David Reid (C)	Orange
Fessenden, Beatrice Louise (L)	Los Angeles
Fountain, Rose Grover (C)	Los Angeles
Frame, Roy (L)	Palms
Fulton, Rolland Saxton (S)	Los Angeles
Gault, Frances Marion (L)	Los Angeles
Gilbert, Hazel Jeannette (L)	Pasadena
Gobar, George Hutchinson (L)	Fullerton
Grant, Pearl Jewell (L)	Los Angeles
Griffith, Helen Foresman (L)	Los Angeles
Grow, Jesse Avery (L)	Los Angeles
Haney, Earl Webster (C)	Los Angeles
Hartman, Bertha Bell (L)	Los Angeles
Herriott, Anna Grace (C)	Fruitvale
Hopkins, Harold Charles (S)	Fullerton
Housh, William Harvey (L)	Los Angeles
Huscroft, Rowena Margaret (C)	Los Angeles

Harvey, Ada Jane (L).....	Santa Fe, N. M.
Johnson, Fred McPherson (C).....	Los Angeles
Kellogg, Kenneth (L).....	Los Angeles
Krider, Boyd B. (L).....	Globe
Lalouette, Helene (L).....	Los Angeles
McCoy, Grace (L)	Beaumont
McClung, James Curry (S).....	Los Angeles
McDermont, Albert Loyd (L).....	Long Beach
McKenney, Lysle Rothwell.....	San Diego
McPherson, Lulu Edna (L).....	Santa Ana
Merrell, Robert (S).....	Sierra Madre
Neer, Francis Edwards (L).....	Pasadena
Overton, Eva Marler (L).....	Los Angeles
Paine, Russell (S).....	Redlands
Patterson, Robert Covert (L).....	Los Angeles
Peck, Gladys (C).....	Pasadena
Petty, Alonzo Ray (L).....	Los Angeles
Parter, Victor Alexander.....	Fullerton
Prewitt, Merle Marie (L).....	Westminster
Pugh, Edmund Wright (L).....	Los Angeles
Raab, Wilhelmina Antonio.....	South Pasadena
Reeve, Archie.....	Los Angeles
Reiner, Mary Lydia (L).....	Pasadena
Richards, Margaret Winifred (L).....	Los Angeles
Riggins, Aileen (L).....	Los Angeles
Salisbury, Charles Scott (S).....	Los Angeles
Sands, Raymond Arthur (L).....	Venice
Scott, Ralph Higgins (L).....	Cleone, Or.
Sherry, Leroy Briggs (L).....	South Pasadena
Smith, Helen Rebecca (L).....	Los Angeles
Smith, John Clark (S).....	San Bernardino
Stonehouse, Elsie Valtina (L).....	Pasadena
Sweet, Walter Halsey (L).....	Pasadena

Thompson, May Aldyth (S).....	Los Angeles
Travis, Mary (L).....	Orange
Williams, Lota Fern (L).....	Pomona
Willoughby Gilbert (L).....	Los Angeles
Wilson, Edith Leontine (L).....	Los Angeles
Wood, Francis Horace (S).....	Redlands
Woodside, Jesse Bell (L).....	Los Angeles
Yeary, Malcolm Leonidas (C).....	Los Angeles

SPECIALS

Bonner, Clark Joaquin.....	Los Angeles
Griffith, George William.....	Hermon
Hatch, Elizabeth Eunice.....	Los Angeles
Hamilton, D'Alton Vallette.....	Los Angeles
Macy, Frank C.....	Aledo, Ill.
McKee, Willa Josephine.....	Los Angeles
Martin, Marion Ruth.....	San Dimas
Merrill, Lilian.....	Los Angeles
Nelson, James Franklin.....	Anaheim
Palmer, Edith Marcia.....	Los Angeles
Roan, Iona E.	Pasadena
Rodgers, Theodora Ann.....	Long Beach
Ross, Robert McDill.....	Los Angeles
Stevenson, William Edward.....	Parkville, Mo.
Twinting, Sadie.....	Pasadena
Thomson, McKee.....	Kuttana, Ky.
Wieman, Ernest Paul.....	Bakersfield
Wieman, Stella Bessie.....	Bakersfield

ACADEMY

FOURTH YEAR

Ainslie, Charles Albert.....	Oxnard
Cotey, Hazel	Los Angeles
Cumberland, William Wilson.....	Los Angeles
Donaldson, Charlotte Victoria	Los Angeles
Eaton, Helen Josephine.....	Los Angeles
Embry, John Augustus.....	Pasadena
Ferguson, Richard D.	Pasadena
Foster, Louise Ernestine.....	Los Angeles
Gilmore, Earl B.	Los Angeles
Grainger, Kyle Ireas.....	Los Angeles
Hamilton, Bessie	Los Angeles
Lowry, Paul	Los Angeles
Ludwig, Ruth	Los Angeles
McClung, Katharyne Wilma	Los Angeles
Montgomery, George Millage.....	Los Angeles
Noyes, Mary	Los Angeles
Pleukharp, James	Los Angeles
Sowden, Grace Evelyn.....	Los Angeles
Thompson, Mary Belle	Los Angeles
Ward, Ethel	Los Angeles
Wilson, Florence Mollie.....	Los Angeles

THIRD YEAR

Bent, Ellen	Los Angeles
Bickford, John	Los Angeles
Bradbeer, Chester Boal.....	Los Angeles
Dieterle, Karl Lionel	Pasadena
Dilworth, Nelson S.	Coachella

Drake, Helen Lois	Fullerton
Duey, Winifred Pearl	Los Angeles
Frost, Hazel Adeline	Los Angeles
Hislop, Willa May	Los Angeles
Jeffrey, Robert Elliott	Los Angeles
Jones, Esther Mary	Los Angeles
Kellogg, Giles Vernon.....	Los Angeles
Leeson, Sadie Margaret.....	Pasadena
Marshall, William Ernest	Somis
Merrill, Marguerite	Los Angeles
Mitchell, Leora Stewart	Los Angeles
Moore, Helen Adele	Los Angeles
Moore, Helen Annie	Los Angeles
Muncy, Ruth Elizabeth	Los Angeles
Myers, Neva Marguerite	Los Angeles
Padrick, Lucinda Lee	Los Angeles
Peebles, Richard Elmore	Los Angeles
Potter, Charles Guy	Los Angeles
Reynolds, Myra	Los Angeles
Tilden, Gladys May	Los Angeles
Towne, Ruth Isabel	Los Angeles
Ward, Lawrence Arthur	Glendale
Ward, Mabel	Los Angeles
Welch, William Buchtell.....	Los Angeles

SECOND YEAR

Anderson, Edward Lewis.....	Los Angeles
Baer, Francis Shaw	Pasadena
Boal, Louise Baxter	Los Angeles
Boswell, Mamie	Los Angeles
Brooke, Helen Esmond	Los Angeles
Brown, Frederick Walton	Pasadena
Camp, Mildred Carry	Pasadena

Caskey, Lois Evarts	Los Angeles
Church, Leroy Dyer	Los Angeles
Clapp, James Norton	Pasadena
Clarke, Minnie	Los Angeles
Clayton, John Heber	Los Angeles
Clute, Walker S.	Los Angeles
Driskell, Clyde Newton	Los Angeles
Eldred, Frederick Heustis	Los Angeles
Ewing, Orville, Jr.	Los Angeles
Games, Frances Marion	Pasadena
Gaskell, Christopher Harold	Dehesa
Gifford, Maurice Lodge	South Pasadena
Gordon, Jean	Los Angeles
Haisch, Howard John	Los Angeles
Hays, William Pierson	Los Angeles
Houlding, Ernest William	Los Angeles
Kellogg, Adeline	Los Angeles
King, Olive Augusta	Tustin
Lane, Paul Vaux	Los Angeles
Lee, Wing	Los Angeles
Lientz, Oliver Kingsley	Los Angeles
Mace, Winfred Hayes	South Pasadena
McNary, Hugh Alin	Los Angeles
Messer, Donald McCrea	Los Angeles
Nichols, Dorothy Agnes	Los Angeles
Prewitt, Raymond Culton	Los Angeles
Renner, Dorothy Jean	Los Angeles
Richards, Marcella Louise	Los Angeles
Rogers, Rowena Jean	Los Angeles
Rolph, Helen Margaret	Los Angeles
Ross, Mary Ella	Los Angeles
Sands, Russell Lowell	Los Angeles
Slyfield, Evelyn	Los Angeles

Smith, George Irwin	Los Angeles
Smith, Louise	Los Angeles
Sowden, Nellie Margaret	Los Angeles
Stafford, Katherine Myra	Los Angeles
Sterling, Edward Ralph	Alhambra
Sterrenberg, Mary Katherine	Los Angeles
Thompson, Alfred R.	Los Angeles
Waddell, Joseph	Los Angeles
Walker, Allie Rhea	Los Angeles
Walker, Ethelyn Ross	Los Angeles
Young, Paul Thomas	Los Angeles

FIRST YEAR

Albrecht, Frederick	Los Angeles
Annin, William Clement	Los Angeles
Austin, Helen Phebe	Los Angeles
Bailey, Cora Evelyn	Los Angeles
Barnes, Sanford Seamans	Sacramento
Boswell, Grace	Los Angeles
Clayton, Annie Lydia	Los Angeles
Collins, Elmer Clinton	Los Angeles
Curry, Irma L.	Los Angeles
Dunlap, Willard Everett.....	Los Angeles
Dunsmoor, Muriel Adella	Los Angeles
Faries, Culbert William	Los Angeles
Farrar, Russell Bert	Los Angeles
Gilkey, Vern Escho	Los Angeles
Haffly, Donald M.	Los Angeles
Hamilton, Edwinna Clare	Los Angeles
Haskell, Ruth Eldred	Los Angeles
Hidey, Daniel Maxwell	Pasadena
Hitchcock, Benjamin Faull	Los Angeles
Hunt, Grace Cochrane	South Pasadena

Kemper, Helen Elizabeth	Los Angeles
Kim, Edwin	Los Angeles
King, Claud Louie	Tustin
Larew, William S.	Mariposa
Locke, James Edward	Watts
Mason, Louise Williamson	Los Angeles
McBurney, Theodore Chester	Los Angeles
McClung, Samuel Hudson	Los Angeles
McLauchlin, John William.....	Anaheim
Miller, William R.	Los Angeles
Moore, Donald McQuitty	Perris
Moore, Helen Hazel	Perris
Moore, Ralph Lee	Los Angeles
Morgan, Lucy	Los Angeles
Morris, Harriet Irene	Los Angeles
Pang, Wha Choong	Los Angeles
Petty, Faunce Fern	Los Angeles
Phelps, Frederick Ward	Pasadena
Phillips, George Gregory	Los Angeles
Ramsaur, Ernest Edmondson	Los Angeles
Reynolds, Harold Youmans	Los Angeles
Rhee, Soon Ki	Seoul, Korea
Rippey, Grace Hortense	Los Angeles
Ross, Edith C.	Los Angeles
Rowell, Muriel Marle	Los Angeles
Sherry, Mildred Lucy	South Pasadena
Shumway, Emma Manning	Los Angeles
Slyfield, Emerson Upton	Los Angeles
Smith, Alexander Nathan	Los Angeles
Smith, Bertha Lillian	Cucamonga
Smith, Hazel	Los Angeles
Smith, Ruth	Los Angeles
Stafford, Dorothy Silvia	Los Angeles

Stearns, Francis Ardell	Los Angeles
Stearns, Theodore Le Grand	Los Angeles
Stratton, Elizabeth Brier	Los Angeles
Underhill, Howard Lawrence	Los Angeles
Wagner, Theodore	Los Angeles
Walker, Elizabeth Sterling	Los Angeles
Wheat, Carl Irving	Los Angeles
Wing, Harold Evan	Los Angeles
Wong, Ka Kin	Los Angeles
Wright, Mabel Lavinia	Los Angeles
Young, Charles Amlong	Los Angeles
Young, Ernest James	Los Angeles
Young, Walter Stewart	Los Angeles

SPECIALS

Arnold, Sarah Ann	Los Angeles
Ballbach, August Francis	South Pasadena
Blackstock, Edward Miah	Los Angeles
Burke, Pascal Henry	Los Angeles
Carver, Kauffman Lowell	Los Angeles
Crane, Clarence Ward	Los Angeles
Dane, Charles Marion	Los Angeles
Daniel, Suzanne Margaret	Los Angeles
Easley, Anna Mabel	Santa Fe, N. M.
Echard, William Rodwell	Los Angeles
Enriques, Enriqueta	Chihuahua, Mex.
Faucette, William Clark	Los Angeles
Faulker, Jessie Katherine	Los Angeles
Fish, Benjamin Harrison	Carpinteria
Gilkey, Claude	Los Angeles
Gordon, William Kenneth	Los Angeles
Healey, John	Colegrove
Kellogg, Archibald	Los Angeles

Lloyd, Mary Elizabeth Gertrude.....	Los Angeles
Lowe, Marjorie	Los Angeles
McInnis, John James	Los Angeles
Miller, Ruth Ellen	Los Angeles
Miller, William Anton	Hollywood
Piper, Ray Kathleen	Los Angeles
Suzuki, Tomitaro	Yamanashi Prov., Japan
Thompson, Vida B.	Los Angeles
Walker, Paul Edmondson	Los Angeles
Walker, Robert Clayton	Los Angeles

Table of Contents

Academy	121
Admission to Academy	125
Admission to Freshman Class.....	29
Admission Subjects	29, 32
Advanced Courses	45
Advanced Standing (Academy).....	126
Advanced Standing (College).....	31
Alumni	147
Associated Student Body.....	118, 144
Athletics	128
Attendance	114, 129
Board of Trustees.....	9
Buildings	20
Calendar	3
Change of Studies.....	111
Christian Associations	118
College	27
Committees of the Faculty.....	15
Committees of the Trustees.....	10
Conditioned Entrance	31
Conditions and Failures.....	112
Courses of Study (Academy).....	130
Courses of Study (College).....	44
Degrees	46

Departments of Instruction (Academy) :

Bible	131
English	132
Latin	134
Greek	135
French	136
German	136
History	136
Mathematics	137
Science	139
Physical Training	141

Departments of Instruction (College) :

Biblical Literature	57
Philosophy	59
Education	60
English	61
Oratory	64
Latin	65
Greek	68
French	73
German	75
Spanish	76
History	77
Economics and Sociology.....	80
Mathematics	82
Astronomy	85
Physics	86
Chemistry	90
Zoology	93
Botany	96
Geology	97
Mechanical Drawing	99
Physical Training	101

Events of the Year	16
Exec. Com. of the Associated Student Body.....	146
Expenses	112, 142
Faculty and Instructors	11, 123
Fees	112, 142
Form of Bequest	120
General Information	111, 142
Glee Club	119
Graduation (Academy).....	127
Graduation (College)	44
Grounds	20
Groups (Synopsis of)	48
Laboratories and Apparatus	22
Library	21
Literary Societies	119, 143
Material Equipment	20
Occidental College	5
Officers of Administration	14
Officers of the Alumni Association.....	145
Officers of the Trustees	10
Oratorical and Debating Contests	116, 143
Physical Training	116
Register of Students	153
Registration	111, 142
Rhodes Scholarships	115
Schedule	104
Scholarships	115
Social Life	114
Special Students	32
Students at Large	32
Student Organizations	118, 143
Student Publications	121
Synopsis of Courses (Academy)	130

Synopsis of Groups (College)	48
Trustees	9
Tuition and Fees	112

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CATALOGUE
OF
OCCIDENTAL
COLLEGE
1908-1909



ANNOUNCEMENT FOR 1909-1910

LOS ANGELES, CALIFORNIA

1909

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Calendar

1909

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|------------------------|---|
| June 7-11 | Final Examinations. |
| June 13, 4 p.m. | Baccalaureate Sermon. |
| June 13, 5 p.m. | Vesper Service. |
| June 15 | Senior Class Day. |
| June 16,
10:30 a.m. | Annual Commencement. |
| Sept. 13-14 | Examinations for admission and
for removal of conditions. Reg-
istration of new students. |
| Sept. 15, 10 a.m. | First Semester begins. |
| Nov. 25 | Thanksgiving Day. |
| Dec. 22, 4 p.m. | Christmas vacation begins. |

1910

- Jan. 5, 8 a.m. Christmas vacation ends.
- Jan. 28-Feb. 3 Mid-Year Examinations.
- Feb. 3, 4 p.m. First Semester ends.
- Feb. 7, 10 a.m. Second Semester begins.
- Feb. 10 Day of Prayer for Colleges.
- Feb. 22 Washington's Birthday.
- Mar. 25, 4 p.m. Spring vacation begins.
- Apr. 5, 8 a.m. Spring vacation ends.
- June 12, 4 p.m. Baccalaureate Sermon.
- June 12, 5 p.m. Vesper Service.
- June 14 Senior Class Day.
- June 15, Annual Commencement.
10:30 a.m.

Occidental College

○CCIDENTAL COLLEGE was founded April 20, 1887, by representative citizens of Los Angeles and vicinity. Though bound by no peculiar creed it stands firmly on the great truths of evangelical Christianity. Four things are guaranteed to its patrons:

First, that the authority of God's word shall be recognized as paramount in all its teachings.

Second, that no sectarian influence shall be admitted within its walls.

Third, that standard, up-to-date courses shall be maintained in every department in which instruction is offered.

Fourth, that nothing shall be undertaken which can not be done well.

The object for which the College was founded, and to which its trustees and faculty stand committed, is the glory of God as seen in the development of young men and young women for lives of the highest usefulness. Such an aim calls for a faculty composed of Christian men and women, strong in scholarship and personality; a broad, well proportioned curriculum; and material equipment to correspond. Each of these demands, the trustees believe, is being successfully met at Occidental. Additions to the present investment in the shape of money, character, and talent, will steadily continue. Progress, on safe lines, may be accepted as a part of the institution's settled policy.

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Faculty and Instructors

Officers of Administration

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Librarian.

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Business Manager.

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Field Secretary.

VERONA M. TROWBRIDGE,
Secretary to the President.

Occidental Academy

For separate catalogue of the Academy and full
information, address,

Charles B. Moore, M.A., Registrar,
Occidental Academy, Los Angeles, Cal.

*Resigned.

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Admission and Classification—Professor Allen, Dean Ward, Dean Cooper, Professor Fiske, Professor Cook.

Athletics—Professor Test, Professor Fiske, Director Braden, Professor Allen, Professor Esterly.

Catalogue and Curriculum—Dean Ward, Professor Stevenson, Professor Beals, Professor Archibald, Professor Allen.

Christian Work—Professor Handley, Professor Cunningham, Professor Cook, Professor Wilson, Mr. Westcott.

Grounds and Buildings—Professor Fiske, Dean Cooper, Professor Morris, Professor Behnke, Miss Foote.

Laboratories—Professor Beals, Professor Esterly, Professor Test, Professor Fiske, Professor Cook.

Library—Professor Behnke, Miss Foote, Dean Cooper, Professor Cook, Professor Cunningham.

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Rules and Discipline—Dean Ward, Dean Cooper, Professor Cook, Professor Fiske, Professor Allen.

Schedule—Professor Allen, Dean Ward, Professor Wilson, Professor Beals, Professor Esterly, Dean Cooper.

Social Life—Dean Cooper, Professor Wilson, Professor Fiske, Professor Handley, Director Braden.

EVENTS OF THE YEAR

Some events of academic interest during the past year:

1908

- May 1.** Address, President Benj. I. Wheeler, University of California. "A Student's Chance."
- May 8.** Address, Capt. Richmond P. Hobson. "America."
- May 15.** Address, Judge Curtis D. Wilbur, Los Angeles. "The Family."
- May 22.** Lecture, Rev. A. W. Lamport, D.D., Pasadena, Cal. "Reminiscences of the Civil War."
- Sept. 16.** Opening Day. Addresses by Rev. R. J. Burdette, D.D., Pasadena, Cal., and Rev. Hugh K. Walker, D.D., Los Angeles.
- Sept. 25.** Address, Rev. J. F. Loba, D.D., Pasadena, Cal. "Making the Most of Life."
- Sept. 27.** Vesper Service. Sermon by Rev. Josiah Sibley, Long Beach, Cal.
- Oct. 1.** Address, E. T. Colton, International Secretary Y.M.C.A. "Selfishness."

- Oct. 2. Address, Ex-Governor Adams of Colorado. "Woman Suffrage."
- Oct. 16. Lecture, Rev. Arthur S. Phelps, D.D., Los Angeles. "Books and Reading."
- Oct. 23. Visit from Presbyterian Synod of California.
Address, U. S. Senator Frank P. Flint. "The United States Senate."
- Oct. 25. Vesper Service. Sermon by Rev. J. G. Blue, D.D., Pasadena, Cal.
- Oct. 28. Lecture, Prof. Homer B. Sprague, University of Chicago. "Shakespeare's Greatest Character."
- Oct. 30. Address, Rev. Chas. E. Locke, D.D., Los Angeles. "Ideals."
- Nov. 13. Reading, Mrs. F. G. Miller, Los Angeles. "The Other Wise Man."
- Nov. 16. Address before the Civic League, Rev. A. S. Phelps, D.D., Los Angeles. "The New Patriotism."
- Nov. 17. Address, Miss Bertha Conde, National Secretary Y.W.C.A.
- Nov. 20. Lecture, Rev. William Horace Day, D.D., Los Angeles. "High-Geared Manhood."
Organization of the Hellenic Society.
- Dec. 2. Dramatic Recital, Mr. Geo. B. Williams, Chicago.

- Dec. 4. Address, Rev. D. M. Gandier, President California Anti-Saloon League. "The Sword of Goliath."
- Dec. 9. Address, Prof. H. L. Wilson, The Johns Hopkins University. "Classical Culture."
- Dec. 10. First regular meeting of the Southern California Science Association. Held in the Hall of Letters, Occidental College.
- Dec. 11. Address, Rev. Henry Richards, D.D., East Africa.
- Dec. 12. Occidental-Pomona Debate.
- Dec. 17. Address before the Civic League, Prof. W. S. Stevenson, Occidental College. "Current Civic Morality."

1909

- Jan. 8. Address, President J. A. B. Sherer, Throop Polytechnic Institute. "Looking Upward."
- Jan. 13. Address, Mr. E. C. Carter, Y.M.C.A. Secretary of the Indian Empire.
- Jan. 12. Lecture, Prof. L. A. Test, Occidental College. "Sources of Our Water Supply."
- Jan. 15. Address, Rev. A. W. Halsey, D.D., Secretary Presbyterian Board of Foreign

Missions. "Africa, the Land of Opportunity."

- Jan. 16. Illustrated Lecture, Miss Mabelle L. Morgan, Occidental Academy. "A Trip Through Sicily."
- Jan. 22. Address, Mr. W. R. George, George Junior Republic. "Our Way."
- Feb. 4. Address, Miss Marie C. Brehm, Secretary of the Scientific Temperance Work of the Presbyterian Church.
- Feb. 5. Address, Rev. Henry S. Bradley, D.D., St. Louis. "Self Control."
- Illustrated Lecture, Prof. Wilbur A. Fiske, Occidental College. "Water and Its Ways."
- Feb. 6. "Twelfth Night," Arden.
- Feb. 11. Day of Prayer for Colleges. Address, Rev. Matt. S. Hughes, D.D., Pasadena, Cal. "The Fruit of the Spirit."
- Address, Rev. Geo. Irving, Secretary Pomona College Y.M.C.A. "What Will You Do With Christ?"
- Feb. 12. Centennial Address on Lincoln, Rev. M. J. McLeod, Pasadena, Cal.
- Feb. 19. Address, Dr. D. K. Pearsons, Chicago. Junior night.
- Feb. 26. Illustrated Lecture, Mr. Wilfred T. Grenfell, M.D., Labrador. "Labrador."

- Mar. 6. Southern California Classical Conference, Hall of Letters, Occidental College.
- Mar. 11. Illustrated Lecture, Prof. Calvin O. Esterly, Occidental College. "Salmon."
- Mar. 12. Illustrated Lecture, Prof. B. R. Baumgardt, Los Angeles. "Norway and Italy."
- Mar. 15. Address, Mr. Fred B. Smith, International Committeeman Y.M.C.A. "The Aim of Education."
- Mar. 16. Address, Commander Ballington Booth, Volunteers of America. "Sanctified Culture."
- Mar. 17. Address, Dr. Caroline Merwin, China. "Medical Missions in China."
- Mar. 26. Address, Hon. Thomas Murphy, Philadelphia. "The Elements of Success."
- Apr. 9. Address, ex-Vice-President Fairbanks. "The American Government."
- Apr. 16. Address before the Civic League, Hon. T. E. Gibbon, Los Angeles. "Opportunities of Citizenship."

MATERIAL EQUIPMENT

Grounds

THE campus consists of twenty-five acres located in Highland Park, in the northeastern part of Los Angeles, midway between the business center of that city and Pasadena. It is easy of access, being on one of the boulevards which connect the two cities and served by two lines of electric cars. On the other hand it is quite suburban in its surroundings, hemmed in as it is by verdure-clad hills and rendered free by its altitude from the smoke and dust of the city. Health and beauty of situation are enhanced by the presence of a cultured Christian community in which the different churches vie with each other in providing every religious and social advantage. About half the campus is at present occupied by buildings, drives, lawns, grounds for athletic sports, etc., the remainder having been but recently purchased to provide room for intended expansion.

Buildings

The principal College building, the Hall of Letters, is a brick structure, erected at a cost of \$70,000. It has three stories and a basement, with a frontage of 180 feet and a depth of 100 feet. It is occupied by the rooms of the executive officials and by lecture rooms for all departments except

Biology and Chemistry. It contains also the halls of the Christian Associations and of the Literary Societies, and an auditorium furnished with opera chairs and having a seating capacity of five hundred. Actual use has proved it to be admirably adapted to the requirements of an up-to-date, progressive school.

The Academy Building is an attractive example of classical architecture, with a spacious study hall and numerous apartments for office and class room work. The basement is fitted up as a gymnasium for the College as well as Academy, in which the various forms of in-door physical training are carried on.

The Stimson Library, erected by Mr. C. M. Stimson of Los Angeles at a cost of \$20,000, is one of the most beautiful library buildings on the Pacific Coast. The lower floor is at present used by the department of Biology. The main floor contains reading and reference rooms, librarian's office, stack room, and the usual facilities for efficient work.

In addition to the three main buildings, there are two smaller buildings which have been set apart for the use of the chemical laboratories.

Library

The Stimson Library contains several thousand volumes, including many valuable reference works. Additions are continually being made. Several of the department libraries are especially creditable, being well stocked with the latest and best literature in their particular lines.

Laboratories and Apparatus

The Biological Laboratories are well equipped. The student in the beginning courses is provided with a compound microscope suitable for all ordinary work; in the higher courses where a microscope is required, each student has an instrument that is completely equipped with condenser, oil-immersion objective and camera. The departments have a very full equipment of stains, reagents and microscopical accessories such as microtomes, paraffine baths and the like.

The Zoological collections are complete enough to give a thorough survey of the animal kingdom. There is a good working collection of bird skins, and a number of excellent preparations of invertebrates, as well as the more important vertebrate preparations. The department has a manikin which makes possible a comparison of the lower mammals with man. There are also fine sets of wax models illustrating the development of the frog and man.

The Botanical equipment includes the apparatus designed by Professor Ganong for physiological and ecological work. The department owns an herbarium containing 1000 Pacific Coast plants which have been catalogued for ready reference. The botanical library, for which the College is principally indebted to Rev. J. C. Nevin, Ph.D., LL.D., is especially valuable.

The Department of Geology and Mineralogy is equipped for efficient work. Mr. Gail Borden has

loaned to the department a rare and valuable collection of labeled minerals, valued at about \$4,000, while Dr. H. B. Gage has donated a collection consisting of several hundred specimens of minerals and fossils, many of which are of great value and scientific interest. A physical-series set, consisting of over two hundred specimens recently purchased of the Foote Mineral Co., Philadelphia, makes a good working series for descriptive and determinative mineralogy. Considerable additions have been made in the way of microscopical rock sections, also in apparatus for studying the physical properties of minerals, for blow-pipe analysis and for effective work in the field.

The tertiary hills surrounding Highland Park present some interesting and excellent examples for field work in dynamic geology. A thousand lantern slides, illustrating geological structures and changes, have been made in the new photographic laboratory, and this number is continually being increased. A valuable series of ideal geological landscape and paleontological charts have recently been added to the department. These, accompanied by other collections consisting of rocks and fossils, maps and models, greatly assist in the acquirement of a proper conception of the laws of dynamical and historical geology.

The Chemical laboratories occupy, for the present, two small buildings on the edge of the campus. One of these buildings contains the laboratory for general chemistry and qualitative analysis, besides a well equipped supply room. In the other build-

ing is the laboratory for quantitative analysis and organic chemistry, and the weighing room, which is supplied with the analytical balances required for the work. Both laboratories are provided with modern desks, each with its own set of apparatus, so that the student may work independently. Extra apparatus may be obtained from the supply room as needed. New apparatus and equipment are being added each year as the needs of the courses demand it.

The equipment in Physics includes numerous pieces covering a wide range of phenomena and selected with great care. The following list is not exhaustive, nor even approximately so, but is intended merely to show the grade of apparatus selected: double cylinder, motor-driven "Geryk" pump; coincidence pendulum, comparator, cathetometer, Young's modulus and torsion apparatus, Alluard hygrometer, Michaelson interferometer (Gaertner); studentia calorimeter (Scientific Shop); improved Joly balance (Stoelting); Pulfrich refractometer (Fritz Köhler); saccharimeter (Schmidt and Haench); universal tangent galvanometer and earth inductor (Queen); station and standard ammeters and voltmeters (Weston); universal vertical galvanometer (Keiser and Schmidt); Thompson double bridge, Kohlrausch universal bridge, and ballistic galvanometer (Hartman and Braun); decade boxes, Wheatstone bridges, galvanometers and condensers (Leeds and Northrup); secohmmeter, quadrant electrometer, mechanical equivalent of heat (Pye); inductance standard

(Nalder); standard resistances (Wolff). The department is particularly fortunate to have a very large Waite and Bartlett static electric machine. This, with the following and various other pieces, is the gift of Dr. O. S. Barnum of this city: Churcher rectifier and several transformers, Faradic and Galvanic cabinet, Wehnelt interrupter, twelve-inch induction coil, several motors, high frequency and wireless telegraphy apparatus, a full supply of Roentgen tubes capable of doing first-class X-ray work.

One of the most practical additions to the department is a shop well supplied with all sorts of wood-working tools, a buzz saw, and screw-cutting engine lathe. A fully equipped photographic laboratory also adds to the efficiency of the department.

The department of Mathematics is equipped with a reference library of 200 volumes, by the best authors, and covering every branch of mathematics. A ten-inch Newtonian reflecting telescope is already on the ground, and the expectation is that it will be mounted in a suitable observatory. The department also has two sextants, transit, Y level, leveling rod, polar planimeter, slide rule, Thatcher's calculating machine, Crelle's calculating tables, a high-grade protractor, parallel rulers, celestial globe, planetarium, and a number of less important instruments.

Requirements for Admission

Requirements for Admission

Admission to the Freshman Class

Candidates for admission to the Freshman Class must be sixteen years of age and must be provided with testimonials of good moral character. Applicants not presenting certificates from accredited high schools or academies will be required to take examinations in all subjects for which they seek admission credit.

Graduates of accredited high schools or academies will be given credit for the subjects in which they are recommended. All credits are, however, subject to the test of the class room. Blanks for certificates will be furnished on application to the Registrar, and it is expected that all applicants for admission without examination will use them. To be admitted to full Freshman standing the candidate must present admission credits amounting to fifteen units of academy or high school work, the unit being understood to represent five recitations per week in one subject continued through one school year.

Admission Subjects

A few subjects which may be accepted are not named below. They will be considered on their merits when presented. A detailed description of these subjects will be found on pages 32 to 44.

1. English, Elementary	2 units
2. English, Advanced	1 unit
3. English, Advanced	1 unit
4. Algebra, Elementary	1 or 1½ units
5. Algebra, Advanced	½ unit
6. Plane Geometry	1 unit
7. Solid Geometry	½ unit
8. Plane Trigonometry	½ unit
9. Ancient History	1 unit
10. Mediaeval and Modern History	1 unit
11. English History	1 unit
12. History and Government of U. S.	1 unit
13. Latin, Elementary	2 units
14. Cicero and Latin Composition	1 unit
15. Vergil and Latin Composition	1 unit
16. Greek, Elementary	2 units
17. Homer and Greek Composition	1 unit
18. German, Elementary	2 units
19. German, Intermediate	1 unit
20. German, Advanced	1 unit
21. French, Elementary	2 units
22. French, Intermediate	1 unit
23. French, Advanced	1 unit
24. Spanish	2 units
25. Physics	1 unit
26. Chemistry	1 unit
27. Botany	1 unit
28. Zoology	1 unit
29. Physiology	1 unit
30. Physical Geography	1 unit
31. General Science	1 unit
32. Freehand Drawing	1 unit
33. Mechanical Drawing	1 unit

Unconditioned Entrance

For unconditioned entrance, one of the following groups of admission subjects must be presented, together with sufficient electives to bring the total value up to fifteen units:

A.—1, 4, 6, 12, 13, 14, 15, 16, 17, 25 or 26 or two other sciences.

B.—1, 4, 6, 12, 13 or 18 or 21, 25 or 26 or two other sciences.

C.—1, 4, 6, 7, 8, 12, 13 or 18 or 21, 25, 26.

Group A should be presented by those expecting to take a classical course, though subjects 16 and 17 may be omitted where other equivalent credits are offered in their place.

Group C must be presented by those seeking the degree of B. S.

Conditioned Entrance

Candidates who are deficient in not more than one and one-half units of the required fifteen may be admitted as conditioned Freshmen; but all entrance conditions must be removed before any student may be ranked as a Junior.

Advanced Standing

Students from other institutions of recognized collegiate rank will be admitted to such standing as seems fair in the judgment of the Faculty. The application must be accompanied by a letter of honorable dismissal, a catalogue of the institution

granting it, an official statement of subjects completed, with the number of terms and the number of hours per week devoted to each subject, and a similar statement of entrance credits.

Students at Large and Special Students

No student is permitted to register for less than twelve units of work in any semester, save by a special vote of the Faculty. Subject to this provision, recommended graduates of accredited preparatory schools presenting any fifteen units included in the list of admission subjects named on page 30, may be admitted as students at large with the privilege of taking such courses as their preparation allows. Those whose preparation does not admit them to the status of students at large or of conditioned Freshmen are sometimes admitted as special students, but only in case of age and maturity. Students at large and special students are subject to the same regulations as the others. They may become candidates for a degree at any time by meeting the usual entrance requirements. On withdrawing from the institution they will be granted certificates showing the work completed.

Description of Admission Subjects

1. English, Elementary. (2 units.)

(a) A practical knowledge of grammar, and of the elements of rhetoric, and the ability to write correct English.

(b) Literature for careful reading:

1907-11. Group I (two to be selected): Shakespeare's *As You Like It*, *Henry V*, *Julius Caesar*, *The Merchant of Venice*, *Twelfth Night*.

Group II (one to be selected): Bacon's *Essays*; Bunyan's *Pilgrim's Progress*, Part 1; *The Sir Roger de Coverley Papers in the Spectator*; Franklin's *Autobiography*.

Group III (one to be selected): Chaucer's *Prologue*; Spenser's *Faerie Queene* (selections); Pope's *Rape of the Lock*; Goldsmith's *Deserted Village*; Palgrave's *Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (two to be selected): Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens' *Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V (two to be selected): Irving's *Sketch Book*; Lamb's *Essays of Elia*; DeQuincey's *Joan of Arc and the English Mail Coach*; Carlyle's *Heroes and Hero Worship*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

The work in literature in admission subjects 1 and 2 is based upon the Uniform Entrance Requirements in English. Books substituted must be equivalent in literary merit and similar in type to those omitted.

Group VI (two to be selected): Coleridge's *Ancient Mariner*; Scott's *Lady of the Lake*; Byron's *Mazeppa* and the *Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Launcelot and Elaine*, and *The Passing of Arthur*; Browning's *Poems* (selected).

2. **English, Advanced.** (1 unit.) Literature for detailed study:

1907-11. Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Pensero*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

3. **English, Advanced.** (1 unit. Advanced composition, including training in the various forms of discourse: description, narrative, exposition, and argumentation.

4. **Algebra, Elementary.** (1 or $1\frac{1}{2}$ units.) The fundamental laws, laws of exponents, formulas of multiplication, binominal theorem with positive integral exponent, factoring, common divisors and multiples, radicals, simultaneous equations of the first degree, quadratic equations, theory of quadratic equations, the elementary presentation of roots, powers, series and logarithms.

5. Algebra, Advanced. ($\frac{1}{2}$ unit.) Simultaneous quadratic equations and equations essentially quadratic; fractional exponents, fractional and irrational equations; roots and powers of polynomials; series; binominal theorem; logarithms; and the elements of the theory of equations.

6. Plane Geometry. (1 unit.) The general properties of plane figures, the circle and the measure of angles, areas, regular polygons, and the measure of the circle; the usual demonstrated theorems and original propositions.

7. Solid Geometry. ($\frac{1}{2}$ unit.) Relations of lines and planes to space; the properties of prisms, pyramids, cylinders, and cones; the sphere and spherical triangle; original propositions.

8. Plane Trigonometry. ($\frac{1}{2}$ unit.) The development of the general formulae of elementary plane trigonometry; the theory and use of logarithms; the numerical solution of plane triangles and of trigonometrical problems in heights and distances.

9. Ancient History. (1 unit.) A year's work in the history of the Eastern Nations, Greece, and Rome, to the establishment of Charlemagne's empire. In Grecian history special attention should be given to the period from the fifth to the second century B. C., and in Roman history to the period from the conquest of Italy to the establishment of Christianity. Outlines, maps, and papers on special topics should be prepared, and should be presented at the time of the examination.

10. Mediaeval and Modern History. (1 unit.)

A year's work in European history from Charlemagne's time to the present. Special attention should be given to mediaeval institutions, the struggle between the empire and the Papacy, the Reformation, and the French Revolution. About one-fifth of the work should be put upon the nineteenth century. Outlines, maps, and papers upon special topics should be prepared, to be presented at the time of the examination.

11. English History. (1 unit.) A year's work in the history and government of England. Maps, outlines, and special reports should be presented at the time of the examination.

12. History and Government of the United States. (1 unit.) A year's study beyond the grammar school, with considerable work in outlines, papers, notes, and reports, to be presented at the time of the examination. The candidate for admission should have a good working knowledge of the Constitution of the United States, and should be familiar with the works of reference on American history found in good high school libraries.

13. Latin, Elementary. (2 units.) Two years of daily exercises are necessary to complete this requirement. The first object to be sought is correct pronunciation, following which, and still more important, is an accurate knowledge of forms. The failure to attain this is responsible for most of the failure and drudgery of the Latin course. Four books of Caesar must be read in class, accompa-

nied by persistent drill in constructions and frequent translation from English into Latin of sentences based on the text. Occasional practice in sight reading is assumed. One result of this course should be a vocabulary, thoroughly learned, of twelve to fifteen hundred words. The substitution of other authors for a portion of the Caesar is admissible.

14. Cicero and Latin Composition. (1 unit.) Six orations of Cicero are required, including the four against Catiline and the one in support of the Manilian Law. Work in constructions should be unremitting. The work in composition should be somewhat more advanced, involving greater attention to the orderly arrangement of the sentence and the joining of sentences into connected paragraphs. Sight reading, in the same author, should be given an increasingly important place, not merely for added facility in translation but for the purpose of discovering and correcting faulty habits of preparation. Time required, one year.

15. Vergil and Latin Composition. (1 unit.) This subject calls for the reading and interpretation of the first six books of Vergil's Aeneid, together with daily or weekly exercises in prose composition based on the authors previously read. After three years devoted to the acquisition of the language, the study of Vergil should be approached with a literary rather than a purely linguistic purpose. Ability to read the hexameter metrically at sight is expected of students who have completed this course. The value of the course will be materially increased by

the addition of sight reading either in the same author or in one of the easier prose writers.

16. Greek, Elementary. (2 units.) The requirement includes a knowledge of prose forms and prose syntax, a good Xenophon vocabulary, and some knowledge of English derivatives. Forms and syntax are usually sufficiently drilled upon, but generally not enough attention is given to vocabulary and English derivatives. White's First Book, Xenophon's Anabasis, I-IV, and Pearson's Composition, Parts I-II, represent the work to be covered.

17. Homer and Greek Composition. (1 unit.) Homer's Iliad I-III and Pearson's Prose Composition are the minimum of preparation. In Homer, a knowledge of Homeric grammar and the prose equivalents of common poetical words, where there are such, and the ability to read Homer not only metrically but with expression, are essential. Some attention should also be given to character study and to Homeric life. In composition, the ability to do easy prose based on Xenophon is required.

18. German, Elementary. (2 units.) This requirement covers two years of high school German. A thorough knowledge of the elements of German grammar is expected and the ability to translate ordinary German into English at sight or English into German. A fair knowledge of poetry and evidence of solid composition work is also required.

19. German, Intermediate. (1 unit.) The ability to read at sight ordinary German prose or poetry, to translate easy English into German, to answer

simple questions in German, and to give evidence of familiarity with the essentials of German grammar including particularly the rules concerning the declension of adjectives and nouns, the conjugation of verbs and word order. Amount of reading required, about 400 pages.

20. German, Advanced. (1 unit.) German prose reading of the more difficult selections from standard authors. Poems memorized, composition work which leaves no doubt as to the thorough grammatical drill of the applicant. The candidate must be able to write in German, short, original themes upon assigned topics. Not less than 700 pages of good modern literature required.

21. French, Elementary. (2 units.) The essentials of grammar, including the regular and the most common irregular verbs, forms and positions of pronouns. The reading of at least 250 pages of modern prose. Easy composition and dictation. Conversation on the text read. Particular stress should be laid on correct pronunciation.

22. French, Intermediate. (1 unit.) Review of the essentials of grammar. Study of irregular verbs and the study of advanced grammar. Composition, written and oral. Reading of about 400 pages of prose by standard modern authors and one or two modern plays. Written analysis and criticisms on text read and conversation on the same. Sight reading and translation. Special attention should be paid to the correct use of idioms.

23. French, Advanced. (1 unit.) The reading of about 800 pages of classical and modern French works by standard authors. The writing of numerous short themes either on topics of every day life or on the text read. Frequent discussions on the text read and advanced composition. The work to be conducted in French.

24. Spanish. (2 units.) Thorough work in grammar, with especial attention to verb drill, including the subjunctive. Sight reading, and translation of about five hundred pages, including some poetry. Easy Spanish composition and original short themes.

25. Physics. (1 unit.) The requirement represents at least one daily exercise throughout the year (preferably the last) in academy or high school, and includes elementary mechanics, heat, sound, light, electricity and magnetism. There should be close relation between class work, lecture demonstration work, and laboratory work. Emphasis should be placed on principles, application of principles to daily life, and ability to solve problems and to think. The class work should include the study of some standard, up-to-date text; such, for example, as Millikan and Gale's First Course in Physics. In the laboratory the student should individually perform with some accuracy at least thirty-five typical experiments, and should present at entrance a well written note book, properly indexed, duly signed by the teacher. To have passed Physics may or may not be sufficient; the student must have passed with credit in some "accredited" school

or show evidence to the head of the Physics department of having done work of high grade which is recognized as fully equivalent to the rank of "recommended."

26. Chemistry. (1 unit.) The completion of an elementary course in general chemistry is required, with practical work in the laboratory. The work is represented by that given in Newell's Descriptive Chemistry and Laboratory Manual. Note books, satisfactory to the head of the department, are also a part of the requirement.

27. Botany. (1 unit.) Applicants for credit in this subject must show ability, obtained during a full year's work of five exercises per week, to solve problems in the field and laboratory. It is not deemed sufficient to simply know terms. The applicant must be able to give intelligent explanations for local conditions. A well kept note book signed by the instructor must accompany the application. The pupil must have a general knowledge of plant morphology and physiology and also be able to recognize readily the common orders of flowering plants. The following texts or their equivalents suggest the scope of the work required: Osterhout's Experiments, Bergen's Elements of Botany.

28. Zoology. (1 unit.) The prerequisites for credit in this subject correspond in time and method to those called for in Botany. The scope of the work is suggested by the text of Linville and Kelly.

29. Physiology. (1 unit.) Credit will not be given for elementary physiology and hygiene done

in the grammar grades. The work must at least have covered the equivalent of Martin's Human Body. Four hours per week must have been spent in a well organized laboratory. Candidates must present note books signed by an instructor.

30. Physical Geography. (1 unit.) This course should have seven periods per week for one year, of which four should be arranged as double laboratory periods. The subject as presented in a text book should be supplemented by laboratory work, including experiments and map study. Records of this work should be kept in a note book, which should be presented as a part of the entrance requirement. The work should include the commonly accepted divisions of the subject, viz.: mathematical geography, the atmosphere, the ocean, and land forms.

31. General Science. (1 unit.) The requirement represents at least five forty-five-minute exercises a week for one year, of which two-fifths or more should be laboratory work. A record should be made of at least thirty-five experiments individually performed and the note book presented at entrance.

The aim of the course is not to present a vast, incoherent store of information touching every division of natural science, but is both to lay the foundation for future scientific work and to perform an important part in a general education. These purposes are accomplished by training the student to experiment carefully, to observe closely, to interpret intelligently both experiment and daily

phenomena, and thus to grasp the fundamental principles and processes which underlie all natural science.

It is suggested that the course be based upon physical principles so related to the biological that one science will dovetail into another related in principles and applications. The chemical process of the burning of a candle is related to the burning of coal in the production of peat, to the oxidation of food in the body, to decay, and to life changes of wide application. Thus the course may well include such common basic phenomena and facts as: oxidation; physical and chemical changes; composition of air, water, food, rocks, and soil; physiological processes of life, growth, and decay; hygiene and sanitation with reference to bacteria in the home, agriculture, disease, and the industrial arts; uses and sources of foods; cycle of organic life and interdependence of plants, animals, and man; influence of climatic, seasonal, and geologic changes; relation of the earth to heavenly bodies.

32. Freehand Drawing. (1 unit.) The requirement represents a daily exercise of forty-five minutes for two years; the credit allowed, however, must be based on the amount and quality of the work accomplished, which must be submitted for examination.

The work should consist of studies of the principles of light and shade and perspective from geometric models, sphere, cube, prisms, etc., and other simple objects of similar form. They should be treated both singly and in groups.

33. **Mechanical Drawing.** (1 unit.) The requirement represents the work usually covered with a daily exercise of forty-five minutes throughout one year. It should consist of exercises adapted to develop neatness and accuracy in the use of drawing instruments, geometrical figures and curves, free-hand lettering, and other exercises leading up to the technical courses. The student's work must be submitted for examination.

Requirements for Graduation

Requirements for Graduation

No student is permitted to graduate who has not spent at least one year in resident study at the College.

The unit employed in reckoning college credits is one recitation per week in one subject continued through a semester. One hundred and twenty-eight of these units are required for graduation, sixty-eight to be completed normally in the Freshman and Sophomore years, and sixty in the Junior and Senior.

COURSES OF STUDY

The courses of study have been arranged with three objects in view:

1. General culture.
2. Special training along chosen lines.
3. Free election, on the part of the student, of a limited number of subjects adapted to his individual tastes and purposes.

To meet the requirement of general culture, certain subjects are prescribed in all courses leading to a degree, viz.:

Bible	8 units
English Literature	6 units
Rhetoric and Composition	6 units

History	6 units
Mathematics	3 units
Science	6 units
Logic	3 units
Psychology	3 units
Ethics	3 units
Physical Training	4 units

Either before or after entrance, students in Group I must have the equivalent of one college year, and students in all other groups the equivalent of two college years, of French or German.

Admission subject 13 or Latin A is required of all candidates for the degree of Bachelor of Arts.

To meet the requirement of special training, every student is expected to choose two departments in which to pursue more advanced courses. Certain prerequisite courses, mainly in the same departments, and extending ordinarily through the Freshman and Sophomore years, must first be completed; after which, advanced courses amounting to 18 units in the two departments chosen (6 being the minimum in either) must be completed before graduation. Following is a list of the dual groups from which the choice may be made, together with the prerequisites for advanced courses in each department reckoned in units:

- I. Latin (12) and Greek (12.)
- II. French (16) and German (6.)
- III. English (12) and Latin (12.)
- IV. English (12) and Greek (12.)
- V. English (12) and French (6.)

- VI. English (12) and German (6.)
- VII. English (12) and History (12.)
- VIII. History (12) and Economics (6.)
- IX. Mathematics (12) and Physics (14.)
- X. Chemistry (14) and Biology (10.)
- XI. Chemistry (14) and Physics (14.)

Note.—In the above list, where either French or German is named without the other, an entrance credit of two years in the subject is assumed. The French-and-German group assumes entrance credit in German only.

To meet the requirement of free election, every student is permitted to select a number of subjects, varying somewhat in amount according to the group chosen, and subject only to the necessary sequence of courses within the several departments.

Each of the groups named above, provided all other requirements for graduation be fulfilled, leads to one of two degrees, viz.:

Groups I-VIII, Bachelor of Arts.

Groups IX-XI, Bachelor of Science.

Synopsis of Groups

Note. — The subjects characteristic of each group (for convenience termed group subjects) are printed in capitals. Other requirements to be fulfilled by those taking the group are shown in ordinary type.

The figures indicate the number of units required in each subject.

The letters in parenthesis at the head of each group show what groups of admission subjects (page 31) furnish the requisite preparation.

In groups I to VIII inclusive the requirement of 3 units of Mathematics may be satisfied by presenting admission subject 7 or 8, or by completing Mathematics A, B, or 1.

Every candidate for a degree must complete one of the eleven groups here outlined.

Group I. (A)

Freshman and Sophomore.

LATIN	12
GREEK	12
Bible	4
English	
Rhet. and Comp.....	6
Literature	6
French or German	*10
Mathematics	3
Science	6
Physical Training	4

Junior and Senior.

LATIN.....	}	18
GREEK.....		
Bible		4
History		6
Logic		3
Psychology		3
Ethics		3
Elective		28

128

* Where no French or German has been presented at entrance.

Group II.

(A, B, C)

Group III.

(A**)

Freshman and Sophomore.

FRENCH	16	ENGLISH	12
GERMAN	*6	LATIN	12
Bible	4	Bible	4
English			
Rhet. and Comp.....	6		
Literature	6		
Latin	*10	French or German ***	16
Mathematics	3	Mathematics	3
Science	6	Science	6
Physical Training	4	Physical Training	4

Junior and Senior.

FRENCH... }		ENGLISH.. }	
GERMAN.. }	18	LATIN..... }	18
Bible	4	Bible	4
History	6	History	6
Logic	3	Logic	3
Psychology	3	Psychology	3
Ethics	3	Ethics	3
Elective	30	Elective	34
	128		128

* Where the minimum entrance requirement in foreign languages (two years) has been offered in German.

** Omitting subjects 16 and 17.

*** Where no French or German has been offered at entrance.

Group IV.

(A, B, C)

Group V.

(A, B, C)

Freshman and Sophomore.

ENGLISH	12	ENGLISH	12
GREEK	*12	FRENCH	**6
Bible	4	Bible	4
French.....	}	}	}
German.....			
Latin.....			
Mathematics	3	Latin	**10
Science	6	Mathematics	3
Physical Training	4	Science	6
		Physical Training	4

Junior and Senior.

ENGLISH. }	}	18	ENGLISH. }	}	18
GREEK.....			FRENCH.. }		
Bible		4	Bible		4
History		6	History		6
Logic		3	Logic		3
Psychology		3	Psychology		3
Ethics		3	Ethics		3
Elective		34	Elective		46
		128			128

* Where three years of Greek have been presented at entrance in addition to the minimum requirement in foreign languages (two years of French, German, or Latin.)

** Where the minimum entrance requirement in foreign languages (two years) has been offered in French.

Group VI.

(A, B, C)

Group VII.

(A, B, C)

Freshman and Sophomore.

ENGLISH	12	ENGLISH	12
GERMAN	*6	HISTORY	12
Bible	4	Bible	4
Latin	*10	Economics	6
		French.....	}**16
		German.....	
		Latin.....	
Mathematics	3	Mathematics	3
Science	6	Science	6
Physical Training	4	Physical Training	4

Junior and Senior.

ENGLISH }	18	ENGLISH.. }	18
GERMAN.. }		HISTORY. }	
Bible	4	Bible	4
History	6		
Logic	3	Logic	3
Psychology	3	Psychology	3
Ethics	3	Ethics	3
Elective	46	Elective	34
	128		128

* Where the minimum entrance requirement in foreign languages (two years) has been offered in German.

** Where only the minimum requirement in foreign languages has been presented at entrance (two years of French, German, or Latin.)

Group VIII.

(A, B, C)

Group IX.

(C)

Freshman and Sophomore.

HISTORY	12	MATHEMATICS	12
ECONOMICS	6	PHYSICS	14
Bible	4	Bible	4
English		English	
Rhet. and Comp.....	6	Rhet. and Comp.....	6
Literature	6	Literature	6
French.....	}	French.....	}
German.....		German.....	
Latin.....		Latin.....	
Mathematics	3		
Science	6	Chemistry	6
Physical Training	4	Physical Training	4

Junior and Senior.

HISTORY.....	}	18	MATHEMATICS	12
ECONOMICS..			PHYSICS	6
Bible		4	Bible	4
			History	6
Logic		3	Logic	3
Psychology		3	Psychology	3
Ethics		3	Ethics	3
Elective		34	Elective	23
		128		128

* Where only the minimum requirement in foreign languages has been presented at entrance (two years of French, German, or Latin.)

Group X.
(C)

Group XI.
(C)

Freshman and Sophomore.

CHEMISTRY	14	CHEMISTRY	14
BIOLOGY	10	PHYSICS	14
Bible	4	Bible	4
English		English	
Rhet. and Comp.....	6	Rhet. and Comp.....	6
Literature	6	Literature	6
French.....	}	French.....	}
German.....		German.....	
Latin.....		Latin.....	
Mathematics	3	Mathematics	12
Physics	6		
Physical Training	4	Physical Training	4

Junior and Senior.

CHEMISTRY..	}	18	CHEMISTRY	12
BIOLOGY.....			PHYSICS	6
Bible		4	Bible	4
History		6	History	6
Logic		3	Logic	3
Psychology		3	Psychology	3
Ethics		3	Ethics	3
Elective		22	Elective	15
		128		128

* Where only the minimum requirement in foreign languages has been presented at entrance (two years of French, German, or Latin.)

Departments of Instruction

Departments of Instruction

BIBLICAL LITERATURE

Professor Handley.

1. Pentateuch.

The five books of Moses are studied from the following viewpoints, viz: The explanation of the origin of the world; the origin, nature and fall of man; the historical setting of the Covenant and the typical teaching concerning the Messianic person, period and work. Required of Freshmen.

2 hours, first semester.

2. Prophecy.

The purpose of this course is to examine the office of the prophet, and to study the latter prophets. Particular attention is given to the predictions concerning the Messianic period and person in relation to both Jews and Gentiles. Also the political environment of the prophet is considered. Required of Sophomores.

2 hours, second semester.

3. Pauline Epistles.

These Epistles are studied to ascertain the author's doctrine concerning Salvation: for this purpose not merely his dialectic, but also his teaching concerning God, man and the God-Man are considered. Also the date, occasion and pur-

pose of the Epistles are studied. Required of Juniors.

2 hours, second semester.

4. Writings of John.

Our purpose here is to find the teaching of the Apostle and of others recorded concerning vital matters of Salvation. Date, occasion and purpose are considered. Required of Seniors.

2 hours, first semester.

Elective Courses

5. Historical Books of the Old Testament.

The history of Israel is taken up where it was left off in Course 1. The aim is to get the fuller historical setting of God's redemptive work.

2 hours, second semester.

6. Poetical Writings of the Old Testament.

These writings are studied from the literary and prophetic viewpoints and to gain an insight into the devotional life of the people together with their practical wisdom.

2 hours, first semester.

7. Life of Christ.

This course is a study of the gospel records, together with prophetic and later evidence that "this is the Christ."

2 hours, second semester.

8. Acts, Hebrews and Epistles.

This course with those offered above completes the study of the Scriptures. Acts gives us a history of the early church while the Epistles present various phases of doctrine and life.

2 hours, first semester.

BIOLOGY

Professor Esterly.

Assistant Professor Cook.

Assistant Goodell.

Zoology

1. Principles of Zoology.

The scope of this course is indicated by the name. Systematic zoology, morphology and physiology are covered, and topics of general interest as well as facts and theories connected with various lines of thought in the science are taken up from time to time. Instruction is by means of lectures and written quizzes and papers upon assigned topics.

3 hours, through the year (6 units).

Professor Esterly.

1A. Demonstration.

A laboratory course to accompany the lectures in Course 1. It is supplementary to the lectures, but does not involve technical work of any kind aside from drawing. It is required of all students in Course 1 who do not take Course 2 or Course 3. The class will be divided into sections of not more than ten students.

1 hour in the laboratory each week, first semester (1 unit).

Professor Esterly.

2. General Zoology.

A laboratory course, in which invertebrate types are studied, and the shark among vertebrates.

Course 2 must be taken by all who expect to pursue advanced courses in zoology.

Prerequisite, Course 1 or its equivalent completed or in progress.

6 hours, first semester (2 units).

Professor Esterly.

3. General Zoology.

A laboratory course, intended to give some insight into vertebrate embryology, histology, and anatomy. The development of the frog, toad, or salamander is followed, and the salamander and frog, one or both, are used in dissection.

Prerequisite, Course 2.

6 hours, second semester (2 units).

Professor Esterly.

7. Field Zoology.

Principally a laboratory or field course, the aim of which is to enable students to become acquainted with the higher vertebrates, especially the birds inhabiting this region. The number of students is limited to ten.

Prerequisite, at least Zoology 1.

1 afternoon in the field weekly, second semester (1 unit).

Professor Esterly.

Advanced Courses

4. Anatomy of Vertebrates.

Lectures and laboratory. The course aims to

cover the higher vertebrate groups in a comprehensive way. The cat is the principal subject of dissection, though a bird or reptile may be included.

Prerequisite, courses 1, 2 and 3.

6 hours in the laboratory and 2 hours of lectures or recitations, first semester (4 units).

Professor Esterly.

5. Cytology and Histology.

Lectures and laboratory. The animal cell is studied in its various phases of activity, and the microscopical anatomy of various tissues and organs of vertebrates is taken up. There is constant practice in the use of reagents and stains, and in the preparation of mounts and series of sections for the microscope. Not given in the same year with Course 6.

Prerequisite, courses 1, 2, and 3.

9 hours in the laboratory and 2 hours of lectures or recitations, second semester (5 units).

Professor Esterly.

6. Embryology.

Lectures and laboratory. The development of vertebrates is studied by means of a text-book supplemented by lectures. There is constant practice in the laboratory in embryological methods, the principal objects of study being the chick and the pig. Not given in the same year with Course 5.

Prerequisite, courses 1, 3, 4.

9 hours in the laboratory and 2 hours of lectures or recitations per week, second semester (5 units).

Professor Esterly.

Botany

1. Morphology of Cryptogams.

A progressive study of the lower plants based on the structure of the reproductive organs and processes.

Prerequisite, admission subject 27 and elementary Chemistry.

3 consecutive hours twice a week in the laboratory and 2 hours of lectures or recitations, first semester (4 units).

Assistant Professor Cook.

2. Flowering Plants.

A study of the structure and physiology of the higher plants.

Prerequisite, admission subject 27.

3 consecutive hours twice a week in the laboratory and 2 hours of lectures or recitations, second semester (4 units).

Assistant Professor Cook.

CHEMISTRY

Professor Test.

Assistant Professor Fiske.

Assistant Hopkins.

A. Elementary Chemistry.

A beginning course in Chemistry. This course

is intended for those who wish to gain a general knowledge of the subject of Chemistry and is open to all students of college rank. Remsen's College Chemistry is used as a reference.

2 lectures and 1 three-hour laboratory period a week through the year (6 units).

Assistant Professor Fiske.

Assistant Hopkins.

1. General Inorganic Chemistry.

Chemical laws and principles and the chemistry of the metals and non-metals. Lectures and recitations. Alexander Smith's General Inorganic Chemistry recommended as a reference book.

Prerequisite, admission subject 26 or Course A.

3 hours, through the year (6 units).

Professor Test.

2. General Chemistry Laboratory.

Experiments illustrating the general principles of Chemistry, and the chemistry of the non-metals. To accompany Course 1, first semester.

6 hours, first semester (2 units).

Assistant Professor Fiske.

Assistant Hopkins.

3. Qualitative Analysis.

Identification of the more common metals and non-metallic radicals. Laboratory and recitations.

Prerequisite, Course 2 completed and 1 completed or in progress.

9 hours, second semester (3 units).

Assistant Professor Fiske.

Assistant Hopkins.

4A. Quantitative Analysis.

Laboratory work taking up simple gravimetric determinations, and the principles of Gravimetric Analysis, with lectures as necessary.

Prerequisite, courses 1 to 3 inclusive.

9 hours, first semester (3 units).

Professor Test.

4B. Quantitative Analysis.

Continuation of 4A, taking up simple volumetric determinations and the principles of Volumetric Analysis.

Prerequisite, 1 to 4A inclusive.

9 hours, second semester (3 units).

Professor Test.

5. Organic Chemistry.

Chemistry of the Aliphatic and Aromatic compounds. Lectures and recitations. Perkins and Kipping's Organic Chemistry recommended as a reference book.

Prerequisite, courses 1 to 3 inclusive, 4A and 4B recommended.

2 hours, through the year (4 units).

Professor Test.

Advanced Courses

6. Organic Chemistry Laboratory.

Preparation of some of the simpler typical or-

ganic compounds, using Garrett and Harden's Practical Organic Chemistry as a laboratory guide.

Prerequisite, 1 to 4A inclusive with 5 completed or in progress.

9 hours, first semester (3 units).

Professor Test.

7. Elements of Physical Chemistry.

Lectures and recitations covering the elementary principles of Physical Chemistry. Given in alternate years.

Prerequisite, courses 1 to 5 inclusive and Physics 3 and 4.

2 hours, first semester (2 units).

Professor Test.

8. Advanced Chemistry Laboratory.

In this course the student may choose his own line of work to some extent. Special methods in Quantitative Analysis, Organic or Inorganic preparations may be taken up with a view to preparing for research work, or if desired, a course in Assaying may be taken.

Prerequisite, not less than 1 to 4 inclusive.

Hours to be arranged with the instructor.

One or two semesters.

Professor Test.

ECONOMICS AND SOCIOLOGY

Professor Stevenson.

Courses 1 and 3 are recommended to students who expect to take only one year's work in this department; but such students may register for courses 1 and 2.

Courses 1 and 2 are intended primarily for Juniors and Seniors, but they are open to Sophomores who expect to take advanced courses in Economics.

1. Economics.

An introductory course dealing with essential facts and principles, and prerequisite to all other courses. The text book will be followed in the order of topics and the general manner of treatment; but full and free discussion of controverted points will be required, together with careful reading of standard authorities, and preparation of papers on assigned topics.

3 hours, first semester.

2. Money and Banking.

The fundamental principles of monetary theory, the history and the practice of banking, and discussion of current problems and legislation. Text books, lectures, and papers.

Prerequisite, Course 1.

3 hours, second semester.

Advanced Courses

History 1 is prerequisite to all advanced courses in this department. Additional prerequisites are stated below.

Two advanced courses are offered each year. 3 and 4 will be given in 1909-10.

3. Sociology.

An introduction to sociological theory, with incidental discussion of the practical problems relating to social reforms and with constant reference to the influence of Christianity on the development of modern society. Lectures and assigned readings.

Prerequisite, Course 2; but courses 2 and 3 may be taken in the reverse order, in which case 2 will be counted as an advanced course and 1 and 3 as its prerequisite.

3 hours, first semester.

4. Practical Sociology.

The application of sociological principles to charity, criminology, and constructive social work. Lectures, the literature of the subject, and personal investigation. Los Angeles offers ample opportunity for field work in the many institutions and conditions that illustrate nearly every phase of social health and social disease.

Prerequisite, Course 3.

3 hours, second semester.

5. Public Finance.

A study of public revenue and expenditure and of financial administration, with special reference to the principles and practice of taxation in the United States.

Prerequisite, courses 1 and 2.

3 hours, first semester.

6. Modern Industrialism.

A critical study of the problems arising from present industrial conditions—the relation of labor and capital, combinations, etc.—and of current questions of special interest and importance.

Prerequisite, Course 5.

3 hours, second semester.

7. Advanced Economics.

A detailed examination of selected subjects treated less fully in Course 1. Special attention is given to topics that bear on the relation between the present social order and the distribution of wealth. Text books and lectures.

Prerequisite, Course 5.

3 hours, second semester.

EDUCATION

Professor Cook.

1. History of Education, Earlier Period.

The Biblical idea of education. Educational theory and practice in Greece and Rome, and in the leading nations of Europe during the Middle Ages. Lectures. Monroe's History of Education. Laurie's Historical Survey of Pre-Christian Education. To alternate with Course 2. Open to Juniors and Seniors.

3 hours, first semester.

2. History of Education, Later Period.

Educational theory and practice in the more advanced nations of modern times. Lectures.

Monroe's History of Education. Quick's Educational Reformers. Supplementary reading. To alternate with Course 1. Open to Juniors and Seniors.

3 hours, first semester.

3. Pedagogy.

Application of ethical principles, and of the sciences of logic, rhetoric, psychology, and physiology to education. The aim will be to give a comprehensive view of the educational process, and to acquaint the student with the best ways and means of promoting physical health and vigor, and of cultivating the senses, intellect, feelings, will, and conscience, and the most approved methods of teaching the subjects usually studied in elementary schools. Lectures. Compayre's Lectures on Pedagogy. Harris, Psychologic Foundations. Supplementary reading. To alternate with Course 4. Open to Juniors and Seniors.

3 hours, second semester.

4. Philosophy of Education.

The course will include a study of the aim, the meaning, and the individual and social aspects of education, educational values, the curriculum, correlation of studies, interest, attention, the art of study, qualifications of teachers, method of the recitation, laws of teaching. Lectures. Horne's Philosophy of Education. McMurray's General Method and Method of the Recitation.

Supplementary reading. To alternate with Course 3. Open to Juniors and Seniors.

3 hours, second semester.

ENGLISH

Professor Cooper.

Assistant Professor Morris.

Assistant Wm. E. Roberts.

1. Rhetoric and Composition.

Drill in the elements of effective prose, laying stress upon correctness, clearness, and vigor. Description and narration; expository writing emphasized. Daily short themes; monthly long themes. Students found deficient in elementary English will be conditioned until such deficiency is removed. Required in all courses; Freshman year.

2 hours, through the year (4 units).

Assistant Professor Morris.

2. Advanced Composition.

Exposition and argument. Two short articles every week. Required in all courses; Sophomore year.

Prerequisite, Course 1.

2 hours, first semester.

Assistant Professor Morris.

6. Victorian Prose Writers.

Carlyle, Ruskin, Arnold, Stevenson. A study of representative works of these writers with spe-

cial reference to qualities and varieties of prose style. Designed particularly to fit students for the more advanced courses in literature. Required in all courses; Sophomore year.

3 hours, first semester.

Professor Cooper.

7. Victorian Poets.

Tennyson, Browning, Rossetti, Morris, Swinburne. Emphasis on the elements of poetic form and poetic criticism. Introductory to more advanced courses in poetry. Required in all courses; Sophomore year.

3 hours, second semester.

Professor Cooper.

8. Public Speaking.

Written and oral work. Speech-making; oration-writing. The class is divided into two sections, each section speaking once a week on a topic previously assigned. During the semester every member of the class prepares one oration.

Prerequisite, courses 1 and 2.

2 hours, first semester.

Assistant Professor Morris.

9. Oral Debate.

Written and oral work. Analysis, brief-making, and formal debate. The class is divided into two sections, each section debating once a week on a question previously assigned. During the semester every member of the class elaborates one forensic.

Prerequisite, courses 1 and 2.

2 hours, second semester.

Assistant Professor Morris.

Advanced Courses

Courses 1, 2, 6, and 7 are prerequisite to all advanced courses.

11. Early Nineteenth Century Poets.

Wordsworth, Coleridge, Byron, Shelley, Keats.
A study of the romantic movement of the early part of the nineteenth century.

3 hours, second semester.

Professor Cooper.

12. Shakespeare.

The principal plays read chronologically, with special attention to the development of Shakespeare's mind and art.

3 hours, first semester.

Professor Cooper.

13. Nineteenth Century Novelists.

Jane Austen, Scott, Dickens, Thackeray, George Eliot.

3 hours, first semester.

Professor Cooper.

14. The Short Story.

A course in Short-Story writing, based on a study of the masterpieces of the art, with special reference to principles of construction.

2 hours, second semester.

Professor Cooper.

15. English Prose from Lamb to Macaulay.

A study of the prose writings of Lamb, De-Quincey, Landor, and Macaulay. (Omitted in 1909-10.)

3 hours, first semester.

Professor Cooper.

16. English Prose from Dryden to Johnson.

A study of the prose writings of Dryden, Addison, Steele, Swift, and Johnson. (Omitted in 1909-10.)

3 hours, first semester.

Professor Cooper.

17. Milton.

The study of "Paradise Lost."

2 hours, second semester.

Professor Cooper.

18. Thesis.

In connection with any of the advanced courses the student may, with the permission of the instructor, write a thesis embodying some piece of research.

1 unit, either semester.

Professor Cooper.

19. Anglo-Saxon.

First semester: The outlines of Anglo-Saxon grammar. Twenty-four selections from pre-Chaucerian literature. Bright's Anglo-Saxon Reader is used. Second semester: Beowulf. Some previous study of German is desirable.

3 hours, through the year (6 units).

Assistant Professor Morris.

20. Chaucer.

A detailed literary and linguistic study of a large number of the Canterbury Tales. Some previous study of Anglo-Saxon, though not necessary, is desirable.

3 hours, second semester.

Assistant Professor Morris.

FRENCH

Professor Wilson.

1. Elementary.

First semester. Thorough drill in fundamental rules of grammar with daily oral and written exercises. Reading short stories and conversation on text read.

Second semester. Drill on irregular verbs, idioms, elements of syntax. Reading of prose by modern authors. Easy composition. Special attention is given to acquiring a vocabulary. French being a living language, great attention is paid in this and the following courses to correct pronunciation and accentuation.

5 hours, through the year (10 units).

2. Modern Prose and Dramatic Writers.

First semester. General review of grammar, dictations in French, composition, written and oral.

Reading: Short stories by modern authors,

one modern play, conversation based upon texts read. In addition, 300 pages of outside reading are required, with written resume of the same in French.

Second semester. Composition, written and oral. Reading: One or two modern plays, modern prose, resumes written in French. In addition, 400 pages of outside reading are required with written resumes in French.

Prerequisite, admission subject 21 or Course 1.
3 hours, through the year (6 units).

6. Scientific French.

Primarily for scientific students and intended to afford a general familiarity with French technical terms and style sufficient to enable the student to read books, monographs, and periodicals treating of recent scientific development. Omitted in 1909-10.

Prerequisite, an ability to interpret readily the easier French authors.

3 hours, one semester.

Advanced Courses

3. Composition and Classics.

Advanced Composition. Reading: Prose by Sand, Balzac, Rostand. Themes and conversations on works read. Sight translation of prose. Reading of Classics: Molière, Racine.

Prerequisite, Course 2.

3 hours, through the year (6 units).

4. Chateaubriand.

Dramas by Victor Hugo, History of French Literature in form of lectures with written reports from students. Conversation and discussion on texts read.

Prerequisite, Course 3.

3 hours, through the year (6 units).

GEOLOGY AND MINERALOGY

Professor Fiske.

1. General Geology; Dynamical and Structural.

Lectures and recitations.

Prerequisite, elementary courses in Physiology, or General Science or Physics, Chemistry, Botany or Zoology.

2 hours, first semester.

2. General Geology, Historical.

Lectures and recitations.

Prerequisite, Course 1.

2 hours, second semester.

3. Field Geology.

This course involves a careful study of the geological condition in and around Highland Park, including both the mountains and the sea; the drift, dip and strike of rock-strata and the various processes now at work to change the surface of the land. The work includes the construction of topographical maps of the region and the out-crop of strata in more specific cases. Students are required to present reports showing

the results of their observations in the field, while photographs of field observations, lantern slides, maps, diagrams, etc., etc., are used extensively in class room work. This course to accompany Course 1.

3 hours, first semester (1 unit).

4. General Paleontology.

The work of this course is conducted both in the field and laboratory, and is accompanied by occasional lectures and recitations. It involves a study of the development of life on the earth from its beginning to the present; the geological and geographical relationship of the various fossil forms, both of plants and animals, together with the characteristic and dominant species of the different divisions of geological time. Constant use is made of the College collection of fossils while occasional excursions are made to fossil-bearing regions for the purpose of studying them as they occur in the earth. This course to accompany Course 2.

3 hours, second semester (1 unit).

5. Mineralogy, Descriptive and Determinative.

Lectures and laboratory. The course involves a study of elementary crystallography, the determination of unknown minerals by means of their physical and chemical properties and tests and the descriptive study of typical minerals found in the College collection. The object is to familiarize the student with the common minerals about

him and to enable him to recognize them on coming in contact with them in the field.

Prerequisite, elementary course in Chemistry.

1 hour lecture and recitation and 3 hours laboratory, first semester (2 units).

6. Mineralogy, Economic.

Lectures and laboratory. The course involves a study of the origin, characteristics and distribution of metalliferous veins; the useful metals, their occurrence, relation to each other and the processes employed in obtaining them from their ores; as well as the occurrence, preparation and uses of numerous products of commercial importance, such as the common fuels, marbles, slates, clays, borax and salt.

Prerequisite, Course 1 or its equivalent.

1 hour lecture and recitation and 3 hours laboratory, second semester (2 units).

The work in Geology and Mineralogy extends throughout the year, during which time special attention is given to the reading of current geological literature while each semester a carefully prepared paper on some historical or economical subject is required of the student.

GERMAN

Professor Behnke.

1. Elementary.

It is expected that this class will do the equivalent of the work mapped out for the regular two-

years' course in German of the Academy and enable the student to continue creditably in the college course.

5 hours, through the year (10 units).

2. Modern Prose and Poetry.

German Classics: Schiller. Essentials of German grammar, including the more detailed work of syntax and composition. German conversation.

Prerequisite, admission subject 18 or Course 1.

3 hours, through the year (6 units).

5. Scientific German.

This course is principally intended for science students. Only those who have acquired a thorough theoretical and practical knowledge of the main principles of German grammar can be admitted, as no attempt will be made to explain the forms of declension, conjugation, construction, etc. The main purpose of the course is to familiarize the student with technical vocabulary and terms that are most frequently used in German scientific works. Omitted in 1909-10.

3 hours, second semester.

Advanced Courses

3. Classics.

Lessing, Goethe, Schiller; selected dramas. Biographies and life work outlined. Solid composition and essay writing.

Prerequisite, Course 2.

3 hours, through the year (6 units).

4. **Condensed Outline of German Mythology, History and Literature** which will enable the student to acquire valuable knowledge of European conditions, past and present. This course, being specially prepared to fit our time limitations, is given in German, and students will be expected to write an occasional essay in German on the topic previously discussed, looking for further references elsewhere. These essays will determine their grade of scholarship.

Prerequisite, Course 3.

3 hours, through the year (6 units).

GREEK

Professor Archibald.

Students may enter this department with three years of preparatory Greek, with two years or with none. Even the last-named may take Greek as a group subject.

Since the advanced courses deal with literary, historical and philosophical topics as well as with accurate linguistics, it is necessary that the foundational courses be done with a maximum of thoroughness. In all courses, therefore, careful attention is paid to vocabulary, forms and syntax, as well as to subject matter.

A. Elementary.

(a) Beginning Book, Goodwin's Grammar.

(b) Xenophon's Anabasis I-IV, with sight reading in the Gospel of John (White).

This course aims to cover thoroughly the work of the first two years of preparatory Greek, and is equivalent to admission subject 16.

5 hours, through the year (10 units).

B. Xenophon and Homer.

(a) Xenophon's *Memorabilia*.

(b) Composition.

(c) Homer's *Iliad* I-III and part of VI (Benner).

Study of prose and poetical grammar, syntax and vocabulary. Metrics. This course is equivalent to admission subject 17.

Prerequisite, admission subject 16 or Course A.

3 hours, through the year (6 units).

1. Homer.

Iliad (Benner). A critical study of selections from Books IX-XXIV, amounting to six books. Frequent sight tests. Essays on Homeric topics.

Prerequisite, admission subject 17 or Course B.

3 hours, first semester.

2. Plato.

Apology and *Crito*, *Phaedo*. Next to an accurate understanding of the text of Plato, attention is given to the life and teachings of Socrates.

Prerequisite, Course 1.

3 hours, second semester.

3. Euripides.

Iphigenia Among the Taurians (Bates); *Alcestis* (Hayley). An introduction to Greek tragedy by the reading of two of the easier and more mod-

ern plays. The Greek Theater (Haigh). Careful study of the meters of tragedy.

Prerequisite, Course 2.

3 hours, first semester.

4. Thucydides, Demosthenes.

Thucydides, Book VII (Smith); Demosthenes, Philippics (Tarbell). The easier writings of these authors are chosen as an introduction to two important periods of Greek history. Stylistic comparison of the two authors. Collateral reading in the other books of Thucydides.

Prerequisite, Course 3.

3 hours, second semester.

7. History of Greek Literature.

Especial attention is paid to the place in literature of Homer, the dramatists, Herodotus, Thucydides, Plato, Aristotle, and Demosthenes. Wright's History of Greek Literature, supplemented by lectures and essays. A knowledge of Greek is desirable but not required. Not given in 1909-10.

Open to all students.

2 hours, second semester.

8. Prose Composition.

Murray. For those preparing to teach Greek in the high schools of California, this course is essential. It should follow Course 3.

2 hours, second semester.

9. Greek Art and Antiquities.

A historical account of Greek art and Greek life. Illustrated. Not given in 1909-10.

2 hours, second semester.

Advanced Courses

Prerequisite, courses 1, 2, and 3, to which it is better to add 4. Two advanced courses are given each year, 11 and 12 being offered for 1909-10.

11. Plato.

Republic (Adam). Selections equivalent in amount to the Gorgias. A course valuable not only for students specializing in Greek but for those pursuing Ethics, Sociology or Education as well. The place of Plato in Greek philosophy.

3 hours, first semester.

12. Lyric Poets.

Selected. Development of the lyric. Lyric meters.

3 hours, second semester.

13. Herodotus.

Books VII and VIII (Smith, Laird). Close study of contemporary history. Stylistic and dialect study.

3 hours, first semester.

14. Sophocles, Aeschylus.

Sophocles, Oedipus the King (Earle). Aeschylus, Agamemnon (Allen). The place of Aeschylus.

lus and Sophocles in the Greek drama. Collateral study of Butcher's "Aristotle's Poetics."

3 hours, second semester.

15. Aristophanes.

Clouds (Humphreys); Frogs. The place of Aristophanes in Greek comedy. Contrast between comedy and tragedy. Comedy as a mirror of the times.

3 hours, first semester.

16. Odyssey.

First twelve books. Source study in mythology. Contrast between the Odyssey and the Iliad. Literary influence of Homer.

3 hours, second semester.

HISTORY

Professor Cunningham.

1A. History of England.

A general view of the political history of England to 1603. Special study of Adams' and Stephens' Select Documents of English Constitutional History.

3 hours, first semester.

1B. History of England.

A general view of the political history of England from the seventeenth to the twentieth century. Special study of Imperial England from literary sources.

3 hours, second semester.

2A. History of Western Europe.

A survey of the history of Western Europe to the sixteenth century. Special study of Cunningham's Civilization During the Middle Ages.

3 hours, first semester.

2B. The Renaissance and Reformation.

The Renaissance: A study of the transition from medieval to modern thought, supplemented by lectures from professors in literature and art. The Reformation: A study of the Protestant reformation in Northern Europe.

3 hours, second semester.

Advanced Courses

Courses 1 and 2 are prerequisite to all advanced courses in History. 5A and 5B are given in alternate years with 6A and 6B.

3. History of Greece.

A study of the history of Greece in which special emphasis is laid on the ages of Pericles and Demosthenes.

3 hours, first semester.

4. History of Rome.

A general survey of the history of Rome to the death of Caesar. Special study of the development of the constitution and the growth of Caesarism.

3 hours, second semester.

5A. American History 1492-1783.

Beginning of the American nation: the European

inheritance. American colonial history: growth of colonial institutions. Causes of the Revolution: growth of independence.

3 hours, first semester.

5B. American History from 1783.

A study of national development; the government, the expansion, and the development of the United States.

Additional prerequisite, Course 5A.

3 hours, second semester.

6A. Modern European History.

A general survey of the history of Europe in the eighteenth century. Special study of the French Revolution and the Napoleonic era. Omitted in 1909-10.

3 hours, first semester.

6B. Modern European History.

A general survey of the history of Europe in the nineteenth century. Special study of the national leaders and social reforms. Omitted in 1909-10.

3 hours, second semester.

LATIN

Professor Ward.

Instructor Morgan.

A. Elementary.

Beginner's Book. Caesar's Gallic War, books

I-IV. Prose composition. This course is identical with admission subject 13.

5 hours, through the year (10 units).

1. Livy.

The larger portion of books XXI and XXII is read, with particular attention to the syntax and Livy's qualities as a writer and historian. Collateral reading on the history of the period.

Prerequisite, admission subjects 14 and 15.

3 hours, first semester.

2. Horace and Cicero.

Horace: Odes and Epodes. Cicero: De Amicitia or De Senectute. Lyric meters. Political conditions at the beginning of the empire.

Prerequisite, Course 1.

3 hours, second semester.

3. Plautus and Terence.

Plautus: Captivi and Trinummus. Terence: Phormio. Meters, early forms and constructions, Roman and Greek life.

Prerequisite, Course 2.

3 hours, first semester.

4. Tacitus and Pliny.

Tacitus: Agricola and Germania. Pliny the younger: selected letters. Investigation of literary and political conditions under the empire.

Prerequisite, Course 3.

3 hours, second semester.

5. Prose Composition I.

For those preparing to teach Latin in the high schools of California, this and the following course are essential.

Prerequisite, admission subjects 14 and 15.

2 hours, first semester.

6. Prose Composition II.

Prerequisite, Course 5.

2 hours, second semester.

Advanced Courses

Course 4 is the common prerequisite for all advanced courses in this department. Two of these besides 13 are offered each year. 7 and 8 will be given in 1909-10. An additional prerequisite to Course 13 is Course 6.

7. Horace and Juvenal.

Horace: Satires and Epistles. Juvenal: selected Satires.

3 hours, first semester.

8. Tacitus.

Selections from the Annals. Collateral studies in the history of the empire.

3 hours, second semester.

9. Lucretius.

De Rerum Natura: books I, III, and V, with extended sight reading in the other three books. The Epicurean system and its poetic treatment at the hands of Lucretius.

3 hours, first semester.

10. Seneca.

Moral essays, accompanied by a close examination of Stoicism as a creed and of its influence upon Roman life.

3 hours, second semester.

11. Catullus, Tibullus, and Propertius.

Selections. Rise of Alexandrinism. Roman morals. Literary coteries of the times.

3 hours, first semester.

12. Roman Comedy.

Plautus: *Rudens* and *Mostellaria*. Terence: *Andria* and *Adelphi*. Lectures on the Roman Drama.

3 hours, second semester.

13. Prose Composition III.

2 hours, one semester.

15. Seneca.

Tragedies: *Hercules Furens*, *Troades*, *Medea*. Comparison with the masters of Greek tragedy, particularly Euripides. Seneca's handling of Greek meters and mythology.

3 hours, second semester.

MATHEMATICS AND ASTRONOMY

Professor Allen.

Assistant Professor Cook.

Mathematics

A. Solid Geometry.

The properties of straight lines and planes, of

dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids and the regular solids, of cylinders, cones and spheres, of spherical triangles, and the measurement of surfaces and solids.

Prerequisite, admission subjects 4 and 6.

3 hours, one semester.

Assistant Professor Cook.

B. Plane and Spherical Trigonometry.

The development of the general formulae of trigonometry. The theory and use of logarithms. The application of trigonometry to numerous problems in plane and spherical mensuration.

Prerequisite, admission subjects 4 and 6.

3 hours, one semester.

Assistant Professor Cook.

1. College Algebra.

This course includes the development and application of the binominal theorem and of the exponential and logarithmic series, permutations and combinations, and the theory of equations.

Prerequisite, admission subjects 4 and 6.

3 hours, first semester.

Assistant Professor Cook.

3. Plane Analytics.

A study of analytic methods, the analytic geometry of the straight line, the circle, and the conic sections, and investigation of the general equation of the second degree.

Prerequisite, admission subject 8 or Course B.
3 hours, second semester.

Assistant Professor Cook.

4. Differential Calculus.

The principles and formulae of differential calculus, and the application to such problems as maxima and minima, indeterminate forms, expansion of series, etc.

Prerequisite, courses 1 and 3.

3 hours, first semester.

Professor Allen.

6. Integral Calculus.

The principles and formulae of integral calculus, with application to problems in integration, such as lengths of curves, areas, volumes, etc.

Prerequisite, Course 4.

3 hours, second semester.

Professor Allen.

Advanced Courses

Course 4 is a prerequisite for any of the following subjects when taken as advanced courses. Otherwise the prerequisites are named with each individual subject.

Astronomy 2 may count as an advanced course in Mathematics for those who have completed Course 4.

7. Elements of Mechanics.

Investigation and application of the best methods of applied mechanics to the development of

the fundamental principles and methods of rational mechanics.

Prerequisite, courses B and 1.

3 hours, second semester.

Professor Allen.

8. Theory of Equations.

The theory of determinants; the theory, analysis, and solution of higher numerical and algebraic equations.

Prerequisite, courses B and 1.

3 hours, first semester.

Professor Allen.

9. Higher Analytics.

A more advanced course than Course 3, including a study of higher plane curves and the elements of solid analytic geometry.

Prerequisite, Course 3.

3 hours, first semester.

Professor Allen.

10. Surveying.

The department is equipped with a transit, Y level, Gunter's chain, steel tape, leveling rod, planimeter, slide rules, highly graduated protractor, parallel rules, etc. The principles of land surveying, irrigation, and railroad engineering will engage the attention of the class in actual field work, and the reduction of the field notes to plots drawn to scale.

Prerequisite, Course 4; but open to those who have completed 1 and 2 if not taken as an advanced course.

3 hours, second semester.

Professor Allen.

12. Theoretical Mechanics.

A mathematical treatment of the fundamental principles of Statics, Kinetics and Kinematics. Attention is also given to Graphic Statics. Numerous problems are solved illustrating the practical application of analytic reasoning. Not given in 1909-10.

Prerequisite, courses 4 and 6.

5 hours, through the year (10 units).

Astronomy

1. General Astronomy.

A course in descriptive astronomy. Simple problems and questions, involving the fundamental principles of astronomy. Study of nebulae, planets, and constellations, with the telescope.

Prerequisite, admission subject 8 or Mathematics B.

3 hours, first semester.

Professor Allen.

2. Practical Astronomy.

Lectures and observatory work. The determination of time, latitude, and longitude, and the computation of current eclipses and occultation of stars.

Prerequisite, admission subject 7, Mathematics 3, Astronomy 1.

3 hours, second semester.

Professor Allen.

MECHANICAL DRAWING

Instructor Westcott.

The courses cover such fundamental principles of Mechanical Drawing as are essential to the student pursuing science or engineering courses. It is recommended that they be taken as early in the course of the student's work as possible. Work in courses 1 and 2 may begin with either semester, in 3 and 4 with the first semester only. Open to all.

1. Instrumental Drawing.

(a) Linear drawing, freehand lettering, geometrical problems and constructions, mathematical curves.

(b) Mathematical curves continued, elementary principles of projection in the third quadrant, helical curves.

3 hours, through the year (2 units).

2. Orthographic Projection.

(a) Problems in projection, intersection of solids, development of surfaces.

(b) Application of the foregoing principles to working drawings, isometric projection, shop sketching. This course is suitable for those who desire a working knowledge of mechanical drawing but who may not find it desirable to take the more extended course in Descriptive Geometry.

Prerequisite, Course 1.

3 hours, through the year (2 units).

3. Descriptive Geometry.

(a) Basic principles, problems on point, line and plane, curved surfaces, sections, intersections.

(b) Shades, shadows and perspective.

The course involves the study and discussion of the elements of drawing from the theoretical side. The problems are adapted to stimulate analytical and constructive thinking. Many are so chosen as to show the application of theory to the practical work of the engineer and draftsman. From one to three hours per week are devoted to recitation or lectures, the balance to work at the drawing board.

Prerequisite, Course 1.

6 hours, through the year (4 units).

4. Machine Drawing.

(a) Machine details, bolts and nuts, screw threads, elements of machine movements, cam, lever and link.

(b) Working drawings of machines, assembly drawings, tracings, blue-prints, titles.

Prerequisite, course 2 or 3.

3 hours, through the year (2 units).

PHILOSOPHY

Professor Handley.

1. Psychology.

This course is a study of the most general elementary and developed forms of consciousness.

Ladd or equivalent is used for text. Required of Juniors.

3 hours, first semester.

2. Logic.

The principles of Deductive and Inductive Logic are studied and applied in practical work. The purpose is to so familiarize the student with the laws of thought that they be made of practical advantage. Required of Juniors.

3 hours, second semester.

3. Ethics.

The philosophy of the moral life is studied from the historical, psychological, philosophical and sociological aspects. Mackenzie or equivalent used as text. Required of Seniors.

3 hours, first semester.

4A. History of Ancient Philosophy.

An examination of the thought of the Greek period with special emphasis upon the systems of Plato and Aristotle. Junior-Senior elective.

3 hours, first semester.

4B. History of Modern Philosophy.

An examination of the principal systems of modern thought from Bruno to the present day. Junior-Senior elective.

3 hours, second semester.

5. Theism.

A study of the theistic arguments together with

an examination of the anti-theistic theories.
Junior-Senior elective.

3 hours, second semester.

PHYSICAL TRAINING

George W. Braden, Director.

Frank H. Gorton, Instructor in Athletics.

Neil C. Trew, M.D., Medical Examiner for Men.

Mary Hagadorn, M.D., Medical Examiner for
Women.

This department is concerned with the health and physical development of the students. The importance of right habits of exercise, diet, dress, bathing, rest and recreation, is emphasized. Medical and physical examinations are required of all students on entering the college. Abnormal tendencies are noted and medical attention advised when necessary. Students having organic heart trouble or any other weakness which would make it dangerous for them to indulge in vigorous exercise are prevented from taking part in athletic competition or heavy gymnastics.

1. For Men.

The instruction includes calisthenics with dumb bells, light and heavy work on side horse, parallel bars, horizontal bar, ladder and mats, gymnastic games and athletics. As largely as possible the work is adapted to individual needs. The exercises are of the hygienic type rather than those requiring a great amount of skill. Movements which are safe, easy and beneficial, are

used in the general work. Those who differ in muscular co-ordination are placed in separate squads under a leader and given exercises adapted to their needs. The physiological effect of an exercise is considered rather than grace of movement. Those who have acquired considerable strength and skill are permitted to join the squad-leaders' class. Instruction in the leaders' class includes advanced exercises in heavy apparatus, wrestling, boxing and tumbling. Required of the young men.

2 hours, through the Freshman and Sophomore years (4 units).

2. For Women.

The instruction includes marching, maze running, fancy steps, calisthenics with and without such movable hand apparatus as dumb bells, wands and Indian clubs, light apparatus work, and recreative games, such as volley ball, basket ball, medicine ball, three deep, etc. The exercises are adapted to individual needs, and are both corrective and hygienic. Exercises liable to cause strain or nervous exhaustion are avoided. Movements requiring a considerable amount of co-ordinating ability are taken up gradually. The leaders' class provides opportunity for advanced pupils to receive special instruction. The regulation costume is black bloomers and blouse trimmed in orange, and white tennis shoes. Required of the young women.

2 hours, through the Freshman and Sophomore years (4 units).

PHYSICS

Professor Beals.

Instructor Anderson.

Assistants F. Rush, R. H. Annin, B. Krider.

A. Elementary Physics.

In the belief that the subject matter of physics as well as the methods cultivated by it are a necessary part of a sound education, this course is offered to those entering without physics. Not technical nor abstruse, nor largely mathematical nor theoretical, but based upon a systematic development of principles and laws, including a wide acquaintance with experimental phenomena and familiar affairs of ordinary life. Primarily intended for those who expect to proceed no further in the subject, but open to others.

2 hours of lectures and recitations and 1 three-hour laboratory period, through the year (6 units).

1. General Physics.

Mechanics, molecular physics, and heat. Lectures and recitations. Laws and principles, mathematical treatment, problems and examinations upon lectures and reading assignments. This course will have experimental illustration throughout.

Prerequisite, admission subjects 8 and 25. A certified note book containing the original record of laboratory work should be pre-

sented to the head of the department before entering this course.

2 hours, through the year (4 units).

2. Physical Measurements.

Mechanics, molecular physics, and heat. Laboratory with quantitative experiments requiring not only a thorough understanding of the principles involved but also care in manipulation and accuracy of observation. This course accompanies Course 1.

Prerequisite, same as for Course 1.

3 consecutive hours once or twice a week through the year (2 or 4 units).

3. General Physics.

Sound, light, magnetism, and electricity, including elements of wave theory with applications to sound, light, and wireless telegraphy, also elements of X-rays, discharge in vacuum tubes, and high frequency electricity. Full experimental illustration. (See page 24).

Prerequisite, Physics 1 and 2.

3 hours, through the year (6 units).

4. Physical Measurements.

Sound, light, magnetism, and electricity. A laboratory course. In order to fit the needs of students planning to go farther in Physics this course is varied by means of alternative experiments, and occasionally by the study of a special problem, in which the student may be interested. This course accompanies Physics 3.

Prerequisite, same as Physics 3.

3 consecutive hours once a week through the year (2 units).

Advanced Courses

5. Electrical Theory.

Mathematical theory of electricity and magnetism. Following in large part the work of J. J. Thomson. Lectures, reading with reports, advanced laboratory work.

Prerequisite, Physics 1, 2, 3, 4; Mathematics 4 and 6; after 1909-10 Mathematics 12.

2 hours lecture, 1 three-hour period laboratory, first semester (3 units).

6. Absolute Electrical Measurements.

Lectures with advanced laboratory work in electricity and magnetism. This course requires maturity of thought and a marked degree of precision in measurement with instruments of the best domestic and foreign make.

Prerequisite, Physics 5.

1 hour lecture, 2 three-hour periods laboratory, second semester (3 units).

SPANISH

Professor Behnke.

1. Elementary.

Elements of Spanish grammar, composition, dialogues, short stories and poetry. The verb and

vocabulary drill will be a feature of the second semester. Identical with admission subject 24.

Prerequisite, admission subject 13 or 21.

4 hours, through the year (8 units).

2. Essentials of Advanced Spanish Grammar and Composition.

Reading of selections from Cervantes, Lope de Vega, Alarcón, Moratín, Iriarte, etc.

Prerequisite, Course 1 or admission subject 24.

3 hours, through the year (6 units).

3. Condensed History of Spain and of Spanish Literature, the latter intended as a study of great authors of the eighteenth and nineteenth centuries. Occasional essays and criticisms in Spanish will be required.

Prerequisite, Course 2.

3 hours, through the year (6 units).

Schedule

Schedule of Lectures and Recitations

The names and numbers of courses correspond with those found under "Departments of Instruction," pages 61 to 104, the added Roman numerals referring to sections of classes.

The figures on either side of the page show the hours at which recitations are held on successive days of the week, 11 standing for 11:20.

L means a laboratory period, which in every case begins at 1 p.m. and ends at 4.

Courses not scheduled will have their hours arranged when the classes are formed.

Chapel exercises are held daily at 11 a.m.

First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
8		8		8	Astronomy 1.....					
					Astronomy 2.....					
	10		10		Bible 1 I.....					
	11		11		Bible 1 II.....					
		1		1	Bible 1 III.....					
					Bible 2 I.....			10		10
					Bible 2 II.....			1		1
					Bible 3.....		9		9	
	8		8		Bible 4.....					
2				2	Bible Elective.....	2				2
					Botany 1.....					
					Botany 2.....					
	10		10		Chemistry A I.....	10			10	
		L						L		
	10		10	L	Chemistry A II.....	10			10	L
10		10		10	Chemistry 1.....	10		10		10

SCHEDULE

107

First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
	L	L			Chemistry 2.....					
					Chemistry 3.....	L	L	L		
L			L	L	Chemistry 4.....	L			L	L
		8		8	Chemistry 5.....			8		8
L			L	L	Chemistry 6.....					
					Chemistry 7.....					
					Chemistry 8.....					
					Drawing 1.....					
					Drawing 2.....					
L			L		Drawing 3.....	L			L	
					Drawing 4.....					
	10	9		9	Economics 1.....					
					Economics 2.....		10	9		9
2	1		1		Economics 3.....					
					Economics 4.....	2	1		1	
	11	11	11		Education 1.....					
					Education 4.....		11	11	11	
9		9			English 1 I.....	9		9		
	11		11		English 1 II.....		11		11	
	1		1		English 1 III.....		1		1	
		10		10	English 2 I.....					
		1		1	English 2 II.....					
9	9		9		English 6.....					
					English 7.....	9	9		9	
		2		2	English 8.....					
					English 9.....			2		2
					English 11.....	10		10		10
10		10		10	English 12.....					

First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
	10		10	9	English 13.....					
					English 14.....		10		10	
					English 17.....			9		9
2	2		2		English 19.....	2	2		2	
					English 20.....	10		10		10
8	8	8	8	8	French 1.....	8	8	8	8	8
	11	11	11		French 2.....		11	11	11	
2	1		1		French 3.....	2	1		1	
	2	2	2		French 4.....		2	2	2	
10		10			Geology 1.....					
					Geology 2.....	10		10		
		L			Geology 3.....					
					Geology 4.....			L		
	L			9	Geology 5.....					
					Geology 6.....		L			9
8	8	8	8	8	German 1.....	8	8	8	8	8
	10	9		9	German 2.....		10	9		9
	2	2	2		German 3.....		2	2	2	
2			1	2	German 4.....	2			1	2
8	8	8	8	8	Greek A.....	8	8	8	8	8
					Greek B.....					
					Greek 1.....					
					Greek 2.....					
					Greek 3.....					
					Greek 4.....					
					Greek 8.....					
					Greek 11.....					
					Greek 12.....					

SCHEDULE

109

First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
	11	11	11		History 1.....		11	11	11	
10		10		10	History 2.....	10		10		10
	10		10	9	History 3.....					
					History 4.....		10		10	9
1		1		1	History 5.....	1		1		1
					Latin A.....					
10		10		10	Latin 1.....					
					Latin 2.....	10		10		10
	11	11	11		Latin 3.....					
					Latin 4.....		11	11	11	
					Latin 5.....					
					Latin 6.....					
2	1		1		Latin 7.....					
					Latin 8.....	2	1		1	
					Mathematics A.....	9		9		9
9		9		9	Mathematics B.....					
	11	11	11		Mathematics 1.....					
					Mathematics 3.....		11	11	11	
10	10		10		Mathematics 4.....					
					Mathematics 6.....	10	10		10	
					Mathematics 7.....		2		2	1
	2		2	1	Mathematics 8.....					
					Mathematics 10.....	8		8		8
9	8		8		Philosophy 1.....					
					Philosophy 2.....	9	8		8	
	9	9	9		Philosophy 3.....					
8		8		8	Philosophy 4.....	8		8		8
					Philosophy 5.....		9	9	9	

First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
10		10			Phys. Train. 1 I.....	10		10		
	10		10		Phys. Train. 1 II.....		10		10	
					Phys. Train. 1 III.....					
	9		9		Phys. Train. 2 I.....		9		9	
		9		9	Phys. Train. 2 II.....			9		9
					Phys. Train. 2 III.....					
	9				Physics A.....		9			
L	L		9		Physics 1.....		L		9	
	9		9		Physics 2 I.....		9		9	
				L	Physics 2 II.....	L				L
	11	11	11		Physics 3.....		11	11	11	
		L			Physics 4.....			L		
10	L			10	Physics 5.....					
					Physics 6.....	L	L			10
					Spanish 1.....					
					Spanish 2.....					
					Spanish 3.....					
8		8		8	Zoology 1.....	8		8		8
			8		Zoology 1A I.....					
			9		Zoology 1A II.....					
			10		Zoology 1A III.....					
	L	L			Zoology 2.....					
					Zoology 3.....		L	L		
10	L	L		10	Zoology 4.....					
					Zoology 5.....	10				10
					Zoology 7.....	L	L	L		L

General Information

General Information

REGISTRATION and COLLEGE CREDITS

Registration. On the appointed registration days at the opening of each semester, each student must obtain a registration card at the Registrar's office. This card, properly filled out, must be filed with the Registrar not later than the first Friday of the semester. Students failing to register before that time will pay a registration fee of two dollars. The tuition fee must be paid or its payment arranged for with the Business Manager at the time of registration. A certificate of moral character is required of each applicant for admission.

Enrollment in Classes. A student desiring to enter any class must present to the instructor a certificate of registration for that class. No one will receive college credit for any course for which he has not duly registered.

Change of Subjects. Students desiring to change from one subject to another after the opening of the semester must present to the classification committee a written petition not later than one month after the beginning of the semester.

Change from one Group to Another. Students

desiring to change from one group to another may do so with the approval of the departments concerned and with the permission of the classification committee, ordinarily not later than the beginning of the Junior year.

Amount of Work. Nineteen unit-hours for Freshmen and Sophomores, and seventeen for Juniors and Seniors, constitute the maximum amount of work for which a student is permitted to register. Twelve unit-hours constitute the minimum. A student incurring a condition or failure will be limited to fifteen unit-hours during the semester following.

Conditions and Failures. A student incurring a failure in any course will be required to re-register for that course before he can receive credit for the subject. A condition incurred in any course becomes a failure unless removed within one year under the direction of the instructor.

FEES AND EXPENSES

Tuition and Fees. The fee for tuition in the College is thirty-five dollars a semester, payable in advance. A fee of five dollars a year is required of all students for athletics. The graduation fee is five dollars.

Special fees for the laboratory courses, payable in advance, are as follows:

	Laboratory Fee	Breakage Deposit
Botany 1	\$3.00	\$
Botany 2	3.00 .....	.....
Chemistry A	5.00	5.00
Chemistry 2	5.00	5.00
Chemistry 3	5.00	5.00
Chemistry 4A	5.00	5.00
Chemistry 4B	5.00	5.00
Chemistry 6	7.50	5.00
Chemistry 8	5.00	5.00
Zoology 2	3.00 .....	.....
Zoology 3	2.50 .....	.....
Zoology 5	5.00 .....	.....
Zoology 6	5.00 .....	.....

For laboratory courses in Physics (and laboratory courses only), charge is made at the rate of \$3 each semester for each laboratory period of 3 hours.

For laboratory courses in Geology a breakage account is kept with each student, to be paid at the end of the semester.

No student will be admitted to the chemical laboratory without a receipt from the Business Manager showing that the breakage deposit has been paid. The balance remaining unused at the end of the semester will be refunded.

Living Expenses. A system of registered lodgings and boarding places provides places of residence for the students at a cost varying from eighteen to twenty-five dollars per month. New students

will be provided on their arrival with complete lists of approved rooms and boarding places.

The necessary expenses of the student range from \$275 to \$400.

Students who desire to earn their expenses while attending the College should register with the Employment Bureau conducted by the Christian Associations. Opportunities for self support among the students are somewhat limited. The number of students who earn their entire expenses is comparatively small.

ATTENDANCE

The College requires of all students regular attendance at the chapel service and at all the classes to which they belong. A copy of the rules governing attendance may be obtained from the Dean.

REGULATIONS GOVERNING SOCIAL LIFE

The College provides places of residence for the students by means of a system of registered lodgings and boarding places. All students must room in places approved by the Faculty, changing from one place to another only with permission. Students are required to keep reasonable hours and to conduct themselves with propriety at all times. A copy of the rules governing the social life of the College may be obtained from the Dean.

SCHOLARSHIPS

The College has eleven scholarships, endowed respectively by

Immanuel Presbyterian Church, Los Angeles, Cal.

Presbyterian Church, Glendale, Cal.

Presbyterian Church, Santa Ana, Cal.

Presbyterian Church, Long Beach, Cal.

Presbyterian Church, Santa Monica, Cal.

Mrs. Mary A. Shipman.

Mr. J. I. Parsons.

Rev. Francis M. Dimmick.

Mrs. Rhoda N. Hunter and Miss R. N. Files.

Mrs. Mardy Andrews Clark (through her daughters).

The Misses Schaiffer.

The person to receive the benefit of a scholarship may be designated by the donor or by the Board of Trustees. The student to whom the scholarship is assigned receives free tuition.

In addition to those named above, the Horace Cleland Scholarship, recently established by the Alumni Association, is awarded, for the Sophomore year only, to that member of each class who seems best entitled to it on the basis of general merit.

The Cecil Rhodes Scholarships—Competition for these is open to the students of Occidental. Mr. Clarence Arthur Spaulding, class of 1907, after passing the qualifying examinations in January, 1908, is now at Oxford, as Rhodes scholar for Arizona.

ORATORICAL AND DEBATING CONTESTS

Intercollegiate Oratorical Contest. An oratorical contest between the colleges of Southern California is held annually. The preliminary contest at Occidental College is in charge of the students' Oratorical Association. The winner in this contest receives a prize, and represents the College in the Intercollegiate Contest between the University of Southern California, Pomona College, and Occidental College. In the last home contest, the first prize was won by Mr. Harold Pellegrin. The second prize was won by Mr. Earle V. Weller.

Oratorical Contest of the Prohibition League. Each year an oratorical contest is held by the students' Prohibition League, which is a branch of the Intercollegiate Prohibition Association. The subjects discussed are connected with the work of temperance reform. In the local contest of 1909, Mr. Earle V. Weller won the first prize, and Mr. Albert L. McDermont, the second prize.

Intercollegiate Debating Contest. An annual debating contest is held each year between representatives of Pomona and Occidental, three men being chosen from each college after a series of preliminary try-outs. The fourth contest in this series was held at Occidental December 12, 1908, and was won by the Occidental team, composed of Messrs. Griffith '12, Dodson '10, and W. Thomson '10.

The Southern California Peace Society. This was the first year in which an oratorical contest was

held under the auspices of the Southern California Peace Society. The aim of the society is to bring about international disarmament. These college contests are for the purpose of interesting college students in the movement. The local contest is under direct charge of the student Oratorical Association, and the winner represents the College in the Intercollegiate Peace Oratorical Contest of Southern California. At the home contest, occurring in April, 1909, Mr. G. F. Spaulding took first prize and Mr. E. V. Weller second.

PHYSICAL TRAINING AND ATHLETICS

A medical and physical examination is required of all students entering the College. Abnormal tendencies are noted and corrective exercises prescribed. The College Gymnasium Handbook gives valuable information on personal hygiene. An anthropometric chart shows the student how much he is below the normal in strength and muscular development, and records the improvement made during a year's work. Students who are organically weak are not allowed to take part in heavy gymnastics or athletic competition. The physical condition of those training for the various athletic games is under the care of the department, and medical examination may be required at the discretion of the director. Those who desire to substitute practice on one of the Varsity squads for the general work in physical training may do so on recommendation of the Instructor in Athletics and must fill out a regular card. No student of whom

physical training is required will be excused from the classes except on request of a physician. The same rules regarding attendance are observed as in other departments.

Physical training has its part in the general plan of college work and is subservient to the larger purpose of the institution. No effort is spared to direct the work of the individual in such a way as to harmonize his physical development with other student activities. Quoting from another, "The department desires to use the game for the man and not the man for the game."

The gymnasium is equipped with such apparatus as is needed for systematic body building. Near by are lockers, with ample dressing rooms, and shower baths supplied with both hot and cold water. A large enclosed court is used by the young women for games, such as basket ball, volley ball and hand ball. Adjoining this court is the young women's dressing and locker room, in which are five showers supplied with hot and cold water. Three well kept tennis courts are open to all the students. The athletic field contains a standard quarter-mile track, with foot-ball, base-ball and basket-ball fields. The training house is convenient to the field and contains a good supply of lockers with combination locks, dressing rooms and baths. The office of the Instructor in Athletics is in the training house.

Athletics as a phase of the general college life are under the care of the Associated Students, acting in co-operation with the Faculty's athletic committee.

Athletics as affecting the health of the individual are controlled by the Physical Director.

THE FRIDAY ASSEMBLY

A joint assembly of Occidental College and Academy is held in the chapel every Friday at eleven o'clock. At this assembly vital topics are discussed by famous men from all parts of the world. No lecture course in the country affords a richer or more varied program than that offered to Occidental students every week in the year, free of charge, from their own chapel platform. Its value as part of a college course can hardly be estimated.

STUDENT ORGANIZATIONS

The Associated Students. The purpose of this organization is to control all student enterprises. All Occidental students are eligible to membership. At its organization, the Associated Students absorbed the Athletic Association, the Oratorical Association, and the Occidental Publishing Company. These enterprises are now under the direct control of a general manager, and under the general control of an Executive Committee, which is composed of the officers of the Association and of one representative for each of the following interests: Oratory, Student Publications, the Alumni, and the Faculty.

The receipts of the Associated Students are from games, benefits, dues, etc. A special athletic fee of \$2.50 each semester is charged each student by the

College, at the request of the students, for the maintenance of physical training work, coaching, etc.

All expenditures must be authorized by the Executive Committee; and every month a full report of all receipts and expenditures, after being duly audited, is published in *The Occidental*.

Christian Associations. The Young Men's and the Young Women's Christian Associations are both represented by strong organizations, being supported by a large majority of the students. The weekly meetings of the Associations are largely attended. Classes for systematic Bible study meet regularly.

Interest in missions is very strong, the Student Volunteer movement being well represented in both Associations. The Y.M.C.A. is at present assisting in the work of a former student, now a missionary in China.

Each year the Y.M.C.A. send a delegation to the State conference at Pacific Grove, and the Y.W.C.A. a delegation to Capitola.

An important feature of the work of the Associations is the Student Employment Bureau, which is conducted for the benefit of those desiring to earn their expenses during the college year. An Information Bureau is also conducted by the Association for the assistance of new students at the opening of the college year.

Literary Societies. The students of the College support three active literary societies: the Steven-

son and the Lowell, composed of young men, and the Laurean Literary Society, composed of young women. These societies hold weekly meetings for debating and other literary work.

Glee Club. The Glee Club continues to maintain its place among the successful organizations of the College. Besides furnishing the music at various services and exercises of the College, the club regularly makes a vacation trip to a number of the surrounding towns. It contributes in no small degree to the social life of its members and to the musical interests of the College.

Membership is open to men both of the College and the Academy and is based upon ability displayed in competitive trials at the opening of the school year.

STUDENT PUBLICATIONS

The Occidental, the College newspaper, appears each week. It is edited and managed by students of the College. An annual, La Encina, is published in May by the Junior class. A handbook of information is issued at the beginning of each year by the Y.M.C.A.

OCCIDENTAL ACADEMY

Occidental Academy, with a faculty of its own, occupies a commodious building on the west side of the campus admirably adapted to its needs. Its equipment, supplemented by that of the College, is especially creditable. As regards curriculum and

teaching force it ranks with the best. Tuition, same as in the College. For separate catalogue, with full information, address

Charles B. Moore, M.A., Registrar,

Occidental Academy.

Los Angeles, Cal.

FORM OF BEQUEST

Those intending to devise property to Occidental College are requested to use the following form: "I hereby give, devise and bequeath unto the Occidental College of Los Angeles, State of California, the sum of.....Dollars."

For property other than money the form should be correspondingly varied.

Officers of

THE

Alumni Association

Fred H. Schauer.....	President
Anna M. McKee	Vice-President
Margaret G. Grant	Secretary
Mattie E. Wakefield.....	Treasurer

Executive Committee

OF THE

Associated Students

George F. Conrad.....	President
Edna F. Lowe	Vice-President
Clara S. Bartram.....	Secretary
Arthur G. Paul	Treasurer
Percy B. Goodell	General Manager
Williell Thomson, Jr.....	Oratorical Representative
William E. Roberts.....	The Occidental Representative
Daniel S. Hammack	Alumni Representative
Dean Ward.....	Faculty Representative

Alumni

1893

Maude Bell (Mrs. F. R. Bear),.....Tropico, Cal.
Martha Thompson (Mrs. Thos. Coyle),.....
.....Princeton, N. J.

1894.

Donald K. Cameron, B.L., Civil Engineer,.....
.....Baltimore, Md.
H. Percy Dilworth, B.L., Rancher,.....
.....Sierra Madre, Cal.
Floy K. Roberts (Mrs. A. N. Jung), A.B.,.....
.....809 Green St., Los Angeles, Cal.

1895.

Alphonso E. Bell, A.B., Rancher,.....
.....Santa Fe Springs, Cal.
Rev. Donald M. Brookman, A.B., Minister,.....
.....Palo Alto, Cal.
Leslie E. Lynn, A.B., Planter,.....
.....San Carlos, Costa Rica
William E. Parker, A.B., Attorney,.....
.....Guaymas, Sonora, Mex.

1896.

George Bryam, B.S., Rancher,.....Glendale, Cal.
Walter V. E. Thompson, B.S., Real Est. Agt.,
.....2515 Stanford Ave., Los Angeles, Cal.

1897.

Helen Harris, B.S., Teacher,.....Chicago, Ill.

Pedro Recio, A.B., Teacher,.....Chihuahua, Mex.

1898.

Rev. Edward H. Miller, A.B., Missionary,.....

..... Seoul, Korea

1900.

Amy Pressley Gordon, B.L.,.....

.....4811 Pasadena Ave., Los Angeles, Cal.

Grace Marie Lowder, A.B.,.....

.....3026 Melvin St., Los Angeles, Cal.

Alfred Solomon, A.B., Professor University Cal-

ifornia, ... Berkeley, Cal.

1902.

Rev. Dwight C. Chapin, A.B., Missionary,.....

.....Paotingfu, North China

Isabel Crowell, B.L., M.D., Physician,.....

..... Monrovia, Cal.

Harry C. Dane, B.S., Accountant,.....

.....1959 W. Washington St., Los Angeles, Cal.

Laura Mosher (Mrs. Silas Johnson), B.L., Mis-

sionary,.....Batanza, West Africa

Mabel R. Patty (Mrs. Thos. Ogden), B.L.,.....

..... Redlands, Cal.

Dorothea E. Lewis (Mrs. Dwight Potter), A.B.,

..... Oakland, Cal.

1903.

*Rev. T. Horace Cleland, A.B.

*Deceased.

Helen Howe, B.S., Teacher,.....Long Beach, Cal.
 Fred H. Schauer, B.L., Attorney,.....
Santa Barbara, Cal.
 Edward H. Solomon, A.B., Teacher,.....
375 W. Ave. 51, Los Angeles, Cal.

1904.

Arthur W. Buell, B.S., M.D., Physician,.....
New York City, N. Y.
 Loua L. Gorham, A.B., Teacher,.....
Santa Barbara, Cal.
 Rev. Augustus Roy Thompson, B.S., Minister,
Dixon, Cal.

1905.

Percy Bailey Goodell, B.S., Teacher,.....
797 E. Orange Grove Ave., Pasadena, Cal.
 Daniel Stewart Hammack, A.B., Attorney,.....
144 E. Ave. 55, Los Angeles, Cal.
 Margaret S. Herskovits, B.L., Teacher,.....
926 Blaine St., Los Angeles, Cal.
 John Robinson Jeffers, A.B., Student U. S. C.
 Med. School.....1623 Shatto St., Los Angeles, Cal.
 Bertha Evelyn James, B.L., Teacher,.....
757 Earlham St., Pasadena, Cal.
 Irwin William McKee, A.B., Surveyor,.....
5430 Marmion Way, Los Angeles, Cal.
 Eleanor Estelle McClung, B.L.,.....
5138 Pasadena Ave., Los Angeles, Cal.
 Clara Florence Meader, A.B., Teacher,.....Azusa, Cal.
 Lelia Wiatt Quinby, B.L., Mission Teacher,.....
Barranquilla, Colombia
 Julia Katrina Winn (Mrs. Walter C. Erdman),
 B.L., Missionary, ...Taiku, Korea

Rev. George Hinsdale Winn, A.B., Missionary,
 Taiku, Korea

1906.

Edwin Hodge Crabtree, A.B., Teacher,.....
San Diego, Cal.

Edna D. Cumberland (Mrs. W. E. Roberts),
 B.L.,.....4930 Granada St., Los Angeles, Cal.

Genevieve M. Cumberland, B.L., Teacher,.....
131 W. Ave. 51, Los Angeles, Cal.

Ernest John Cummings, A.B., Student,.....
Stanford University

Rebecca Pearl Ellis, B.L., Teacher,.....Whittier, Cal.

Margaret Gordon Grant, A.B.,.....
5542 Pasadena Ave., Los Angeles, Cal.

John Percival Hagerman, B.L., Y.M.C.A. Sec.,
Los Angeles, Cal.

Philip Benjamin Kennedy, B.L., Student,.....
Beloit, Wis.

Sidney McKee, B.L., Theological Student,.....
San Anselmo, Cal.

*James McMichael, A.B.

Rev. Carl Wallace Petty, B.L.,.....
4419 Pasadena Ave., Los Angeles, Cal.

Edith Catherine Powell (Mrs. Harry Raney),
 B.L.,.....Azusa, Cal.

George Nye Steiger, A.B., Teacher,.....
Shanghai, China

Mattie Ethelyn Wakefield, B.S., Pasadena
 Library,.....287 Lincoln Ave., Pasadena, Cal.

Frances Grace Webster, A.B., Teacher,.....
1427 N. Mentor St., Pasadena, Cal.
 Clyde Lynn Earl Wolfe, B.S., Student,.....
Harvard University, Cambridge, Mass.

1907.

Frank Peer Beal, B.L., Y.M.C.A. Sec.,.....
Culver, Ind.
 Rev. John Wesley Beard, B.L., Minister,.....
Omaha, Neb.
 Robert Henry Blee, B.S., Chemist, Santa Ana, Cal.
 Vera Howard Brooke, A.B., Teacher,.....
138 E. Ave. 58, Los Angeles, Cal.
 Robert Glass Cleland, A.B., Student Princeton
 University,..... Los Angeles, Cal.
 Charles Herbert Cleveland, B.L., Undertaker,.....
Long Beach, Cal.
 Howard Clever, B.S., Rancher, Fullerton, Cal.
 Mamie Katherine Daniel, B.L.,.....
5326 Monte Vista St., Los Angeles, Cal.
 Harry Sloan Dukes, B.L., Teacher,.....
2422 E. 3d St., Los Angeles, Cal.
 Bessie Louise Field, B.L., Student Univ. Cal.,
5311 Monte Vista St., Los Angeles, Cal.
 Theodore Fulton, B.L., Teacher,.....
2272 W. 29th St., Los Angeles, Cal.
 Frances Wallace Gordon, B.L.,.....
4811 Pasadena Ave., Los Angeles, Cal.
 Marie Alden Hopkins, A.B., Teacher, Fullerton, Cal.
 Elizabeth Anne Horton, B.L., Teacher,.....
1025 San Pasqual Ave., Pasadena, Cal.
 Abigail Lucinda Lane, B.L.,.....Elkins, N. M.
 Laura Matilda McGaugh, B.L.,.....Rivera, Cal.

- Anna Montella McKee, A.B.,.....
426 S. Boyle Ave., Los Angeles, Cal.
 Samuel Clark McKee, A.B., Theolog. Student,
 Auburn, N. Y.
 Fairy Abiah Means, B.L. (Mrs. Robert Blee),
 Santa Ana, Cal.
 Lilian Maria Merrill, B.L.,.....
5323 Pasadena Ave., Los Angeles, Cal.
 Ysabel Mordy, B.L., Teacher,.....Albuquerque, N. M.
 Maud Imogene Muratt, A.B., Teacher,.....
845 E. 29th St., Los Angeles, Cal.
 Bessie May Pope, A.B.,.....
2913 Downey Ave., Los Angeles, Cal.
 Harriet Alice Snyder, B.L., Teacher,.....
817 E. Walnut St., Pasadena, Cal.
 Clarence Arthur Spaulding, B.L., Student,.....
 Oxford, England

1908.

- Ray William Bachtell, B.L., Theolog. Student,
Auburn, N. Y.
 John Clement Berry, A.B., C. M. Staub Shoe
 Co.,.....5101 Pasadena Ave., Los Angeles, Cal.
 Bertha Boal, B.L., Teacher,.....
127 W. Ave. 52, Los Angeles, Cal.
 Niño L. Brown, B.L., Teacher,.....
New York City, N. Y.
 Myrtle Minnie Bubach, B.L., Student Univer-
 sity California,.....555 Galena St., Pasadena, Cal.
 Bess Marie Buck, A.B., Student University
 Calif.,.....2634 Budlong Ave, Los Angeles, Cal.
 Watson Beebe Burt, A.B., Student Princeton
 University,..... South Pasadena, Cal.

- Rev. Edward Dwight Chapin, B.L., Minister,.....
5858 Denver St., Los Angeles, Cal.
- Theodore S. Chapin, B.S., U. S. Geological Survey, ... Alaska
- Walter Raymond Crane, B.S., Student P. & S.
 Med. College,.....New York City, N. Y.
- Katherine Maud Darling, A.B., Student University Cal.,.....265 S. Euclid Ave., Pasadena, Cal.
- Mae Alice Darling, A.B., Student University
 Cal.,.....265 S. Euclid Ave., Pasadena, Cal.
- Carey Demaree, B.L., Rancher,.....Orosi, Cal.
- Harriet Hardin Gage, B.L., Teacher,.....Urumia, Persia
- Alice Margaret Gall, A.B., Student University
 Cal.,.....Santa Ana, Cal.
- James Hazen Gordon, B.S., Rancher,.....
Bostonia, Cal.
- Annie Louise Harris, B.L., Student University
 Cal.,.....Ione, Cal.
- William Otto Hoogestraat, B.S., Teacher,.....
Tekoa, Wash.
- Charles Wolfe List, B.L., Inv. Broker,.....
155 Pasadena Ave., South Pasadena, Cal.
- Marla Faye McKean, B.L., Student University
 Cal.,.....Santa Ana, Cal.
- David Bruce Merrill, B.L., Broker,.....
5323 Pasadena Ave., Los Angeles, Cal.
- Janet Florence Naismith, B.L., Teacher,.....
1110 Fedora St., Los Angeles, Cal.
- Mary Frances Pierce, B.L., Teacher,.....Pomona, Cal.
- Harry Blackburn Raney, B.L., Accountant,.....
Azusa, Cal.
- James Merle Smith, B.L., Teacher,.....Santa Ana, Cal.

Arthur Logan Spring, B.S., Electrician,.....
.....308 W. Ave. 50, Los Angeles, Cal.
Mary Emma Thomas, A.B., Teacher,.....
.....Stephenson Ave., Pasadena, Cal.
Pearl Wiggins, B.S., Teacher,.....
.....2515 Michigan Ave., Los Angeles, Cal.

Register of Students

SENIORS

Annin, Harriet Louise	Los Angeles
Bartram, Clara Serena	Los Angeles
Chapman, Paul Garthwright	Norfolk, Virginia
Conrad, George Francis	San Bernardino
Davis, Anna Beulah.....	El Modena
Elliot, Paul Clinton.....	Long Beach
Flanders, Caroline Eleanor.....	Los Angeles
Hillis, Earl Douglas.....	Riverside
Hoogestraat, Christine Vive.....	Arcadia, Iowa
Holley, William Logan.....	Los Angeles
Johnston, John Cherry.....	Los Angeles
Knudson, Maude Eleanor.....	Los Angeles
La Tourette, Winifred.....	Pasadena
Lee, Barbara Ella.....	Los Angeles
Lee, Etta.....	Los Angeles
Lodwick, Leona.....	Los Angeles
Longacre, Hazel Irene.....	Los Angeles
Lowe, Edna Frances.....	Los Angeles
McKalip, Hannah Lois.....	Los Angeles
Morrison, Clarence Eugene.....	Los Angeles
Norton, Susie Ida.....	Monrovia
Patterson, Jessie Elizabeth.....	Los Angeles
Paul, Arthur Gordon.....	Los Angeles

Phillips, Leah Annette.....	Los Angeles
Proctor, Henry, Jr.....	Santa Paula
Rankin, Herbert Palmer.....	Santa Ana
Rice, Marie Luella.....	Phoenix, Arizona
Roberts, William Everett.....	Los Angeles
Rush, Frank Neill.....	South Pasadena
Smart, Janet Eliza.....	Santa Ana
Strobridge, Eloise.....	Los Angeles
Thomas, Harry Bryson.....	Los Angeles
Thomas, Samuel Pierce.....	Los Angeles
Thomson, Henry Lyon.....	Los Angeles
Weller, Earle Vonard.....	Los Angeles
Whitcomb, Grace Elinor.....	Los Angeles

JUNIORS

Alger, Edna Cynthia.....	Edgewood, Iowa
Bailey, Nellie May.....	Rialto
Benedict, Katherine Ladd.....	Wellington, Ohio
Bercovitz, Nathaniel.....	Los Angeles
Bickford, Claribel Louise.....	Los Angeles
Bird, Owen Robert.....	Los Angeles
Blee, Mary Edna.....	Santa Ana
Bond, Lillard Ray.....	Santa Paula
Byers, Bertha Viola.....	Pasadena
Church, Max Albert.....	Los Angeles
Crawford, Julia Etta.....	Tustin
Cumberland, Esther Clarice.....	Los Angeles
Davenport, Blanche Lunn.....	Tropico
Dickey, Helen Janet.....	Los Angeles
Dingman, Beulah Edna.....	Monrovia
Dodson, Philip Fortunatus.....	South Pasadena
Fisher, Muriel Douglas.....	South Pasadena

Foote, Harriet Ruth.....	Los Angeles
Gardner, Alva Lucia.....	South Pasadena
Heath, Sara.....	Baldwin Park
Hillery, Horace Everett.....	Fairbanks, Alaska
Jepson, Gail Dubois	Pasadena
Leighton, Edna May.....	Long Beach
Lowe, Mary Elizabeth	Los Angeles
MacDougal, Jean.....	Monrovia
McDowell, Charles	Los Angeles
McFarland, Arthur Woodward.....	Falk's Store, Idaho
McKean, Della Rae.....	Santa Ana
Mee, Charles Putnam	Los Angeles
Merrill, Grayson.....	Los Angeles
Pellegrin, Harold Francis.....	Anaheim
Rice, Lulu Byrd.....	Phoenix, Arizona
Roan, Donna E.	Pasadena
Rowley, Grace May.....	Santa Ana
Saviers, Olive Irene.....	Oxnard
Snively, Ruby Bernice.....	Oxnard
Thomson, Fred Clifton	Los Angeles
Thomson, Williell, Jr.....	Los Angeles
Trowbridge, Verona Merry.....	Los Angeles
Twinting, Sadie	Pasadena
Young, Arthur Nichols.....	Los Angeles

SOPHOMORES

Anderson, Norbert Lee.....	Los Angeles
Annin, Roswell Howard.....	Los Angeles
Baer, George Van Dusen.....	Pasadena
Brown, Anita	South Pasadena
Chamberlin, Edna Louise	Los Angeles
Chase, Rosalind Joleva.....	San Diego

Christian, Anna Brockenbraugh.....	San Diego
Clark, Flora May.....	Fallbrook
Clark, Marian Weller.....	Hollywood
Collins, Arthur.....	Santa Ana
Crinklaw, Lou Elizabeth.....	Los Angeles
Douglas, Clifford Alden.....	Fullerton
Edwards, Mary Bartee.....	Los Angeles
Elton, Murray Stevens.....	South Pasadena
Faries, David Reid.....	Los Angeles
Frame, Roy D.....	Palms
Gobar, George Hutchinson.....	Fullerton
Grant, Pearl Jewell.....	Los Angeles
Griffith, Helen Foresman.....	Los Angeles
Harvey, Ada Jane.....	Santa Fe, New Mexico
Herriott, Anna Grace.....	Fruitvale
Hopkins, Charles Harold.....	Fullerton
Housh, William Harvey.....	Los Angeles
Huscroft, Rowena Margaret.....	Los Angeles
Johnson, Fred McPherson.....	Los Angeles
Kellogg, Kenneth.....	Los Angeles
Krider, Boyd B.....	Porterville
Longacre, Ray Leon.....	Los Angeles
McCoy, Grace.....	Beaumont
McDermott, Albert Lloyd.....	Long Beach
McKee, Willa Josephine.....	Los Angeles
McKenney, Lysle Rothwell.....	San Diego
Neer, Francis Edwards.....	Pasadena
Nelson, James Franklin.....	Anaheim
Overton, Eva Marler.....	Los Angeles
Patterson, Robert Covert.....	Los Angeles
Peck, Gladys.....	Pasadena
Powell, Lewis Mortimer.....	Pasadena
Pugh, Edmond Wright.....	Los Angeles

Raab, Wilhelmina Antonia.....	South Pasadena
Reeve, Archie.....	Los Angeles
Reiner, Mary Lydia.....	Nipomo
Riggins, Aileen.....	Los Angeles
Robertson, Alfred Worcester.....	Rochester, N. H.
Sands, Raymond Arthur	Venice
Scott, Ralph Higgins	Cleone, Oregon
Stonehouse, Elsie Valtia.....	Pasadena
Sweet, Walter Halsey	Pasadena
Thompson, May Aldyth.....	Los Angeles
Travis, Mary	Orange
Willoughby, Gilbert	Los Angeles
Wieman, Stella Bessie.....	Bakersfield
Wood, Francis Horace.....	Redlands
Yeary, Malcom Leonidas.....	Los Angeles

FRESHMEN

Ainslee, Charles Ainslee.....	Oxnard
Alexander, Anna Theresa	Riverside
Atkinson, May	Azusa
Baker, Alice	Pasadena
Barkelew, Ethel Ree.....	Los Angeles
Barkelew, Maude Stanforth	Redlands
Barnard, Walter Everett.....	Worcester, Mass.
Baxter, Kathryne Gladys	Compton
Bishop, Edwin Abbey	Fullerton
Blount, Herbert Turner.....	Los Angeles
Boorey, Florence	Pasadena
Boyd, Leslie Logue.....	Paris, Idaho
Boynton, Willard Arnett.....	Pasadena
Brack, Georgia McKenzie	Los Angeles
Bradford, Edna Violet.....	Pasadena

Carr, Andrew Morton.....	Minot, N. Dakota
Carus, Clayton D.....	Pasadena
Cave, Mabel Elizabeth.....	Redlands
Cole, Mary Gladys	Los Angeles
Cotey, Hazel May.....	Los Angeles
Cotteral, Pearl Anabel	Los Angeles
Creighton, Roy Lamont	Phoenix, Arizona
Cumberland, William Wilson	Los Angeles
Dunn, Myrtle	Los Angeles
Deakins, Ray Robert.....	Colton
Donaldson, Charlotte Victoria	Los Angeles
Eaton, Helen.....	Los Angeles
Faulkner, Jessie Katherine	Los Angeles
Fifield, Helen Faye	Los Angeles
Fish, Benjamin Harrison.....	Carpinteria
Fountain, Rose Grover.....	Los Angeles
Fuller, Charles Morris	Los Angeles
Gardner, Bessie Margery.....	South Pasadena
Gillmore, Earl Bell	Los Angeles
Gordon, Kenneth.....	Los Angeles
Grainger, Kyle Zenas	Los Angeles
Hayes, Casey Hewitt	Los Angeles
Hogsett, Irma Marion	Redlands
Hollister, Warner	Pasadena
Hunt, James Raymond.....	Los Angeles
Huntsberger, Harold Kessler	Los Angeles
Jones, Elizabeth	Pasadena
Key, Sarah Elizabeth.....	Fullerton
Killips, Fay Lillian	Los Angeles
Knapp, Dwight Eugene	Redlands
Landreth, Harold Brooke	Pasadena
Lawson, Francis William.....	Alhambra
Lockwood, Herbert Humphrey	South Pasadena

Lowry, Paul	Los Angeles
Ludwig, Ruth Esther.....	Los Angeles
McClung, Katherine Wilma	Los Angeles
McCray, Aaron Calvin	Los Angeles
McGee, Robert David.....	Santa Ana
McNealy, Helen	San Marcos
McPeak, Daniel	Los Angeles
Miller, Anna Inga Lena.....	Los Angeles
Montgomery, George Millage	Alhambra
Noyes, Mary.....	Los Angeles
Osborn, Everett Lawrence.....	Glendale
Osmond, Edith Griffith	Los Angeles
Parmelee, Harvey Wright.....	Santa Barbara
Pettit, Carolyn Walton.....	Fowler
Pleukharp, James	Los Angeles
Post, Esther Annette.....	Fowler
Preston, Burton Robinson Preston, Mansfield, Ohio	
Raab, Theodora Augusta.....	South Pasadena
Randall, Wilbur Woodruff	Ione
Richards, Eleanor	Los Angeles
Rivers, Henry Edmund	Los Angeles
Rogerson, Georgia Kilbourne.....	Redlands
Schauer, Benjamin Rey	Santa Barbara
Schoonover, Warren.....	Los Angeles
Scott, Loraine.....	Mesa, Arizona
Simmons, Francis William.....	Pasadena
Smart, James Patterson.....	Santa Ana
Smith, Marion	Los Angeles
Smith, Winnifred Ruth.....	Los Angeles
Sowden, Bessie Carver.....	Los Angeles
Sowden, Grace Evelyn.....	Los Angeles
Stanger, Francis Merriman	Hermon
Stanley, Bertha Elvira	Whittier

Stewart, Blanche.....	Waterloo, Iowa
Stone, George Eathl.....	Monrovia
Story, Mary	Rivera
Spaulding, George Fredrick.....	Phoenix, Arizona
Thomas, Frank Lynn.....	Los Angeles
Thompson, Ruth	Monrovia
Trott, Muriel Henrietta	South Pasadena
Truesdell, Alice Marian.....	Redlands
Tucker, Celia Elliott.....	Alhambra
Tuller, Anna Louise.....	Pomona
Vickers, Grace Adelaide.....	Los Angeles
Walker, Paul.....	Ft. Wayne
Wendling, Lillie Ethel.....	Los Angeles
White, Natalie	Pasadena
Wilson, Florence Mollie	Los Angeles
Wilson, Samuel Martin	Compton
Zinn, Edgar George.....	Riverside

SPECIALS

Aitkin, Jean Noble.....	Los Angeles
Ballbach, August F.....	South Pasadena
Bathgate, Violet May	Orange
Beardsley, Emma Gertrude	Pasadena
Bonner, Clark Joaquin	Los Angeles
Crowe, Mizpah Julian	San Diego
Crowe, Wynne Belle.....	San Diego
Crowell, Alfrida.....	Los Angeles
Cunningham, Milton Hodges.....	Casa Verdugo
Eldridge, Huldah Caroline	Pasadena
Gillis, Edward	Beaumont
Griffith, George William.....	Hermon
Hamilton, D'Alton Vallette.....	Los Angeles

Haney, Earl Webster	Los Angeles
Hatch, Elizabeth Eunice.....	Los Angeles
Irvine, Ruby May	Long Beach
Kellogg, Archibald.....	Los Angeles
Martin, Marion Ruth.....	San Dimas
Patterson, Charles Scott	Los Angeles
Ross, Robert McDill.....	Los Angeles
Walberg, Harold Emmanuel.....	Los Angeles
Wieman, Earnest Paul.....	Bakersfield

Table of Contents

Admission to Freshman Class.....	29
Admission Subjects	29, 32
Advanced Courses	48
Advanced Standing	31
Alumni	127
Associated Students	121, 126
Athletics	119
Attendance	116
Board of Trustees	9
Buildings	20
Calendar	3
Change of Courses	113
Christian Associations	122
Committees of the Faculty	14
Committees of the Trustees	10
Conditioned Entrance	31
Conditions and Failures	114
Courses of Study	47
Degrees	49

Departments of Instruction :

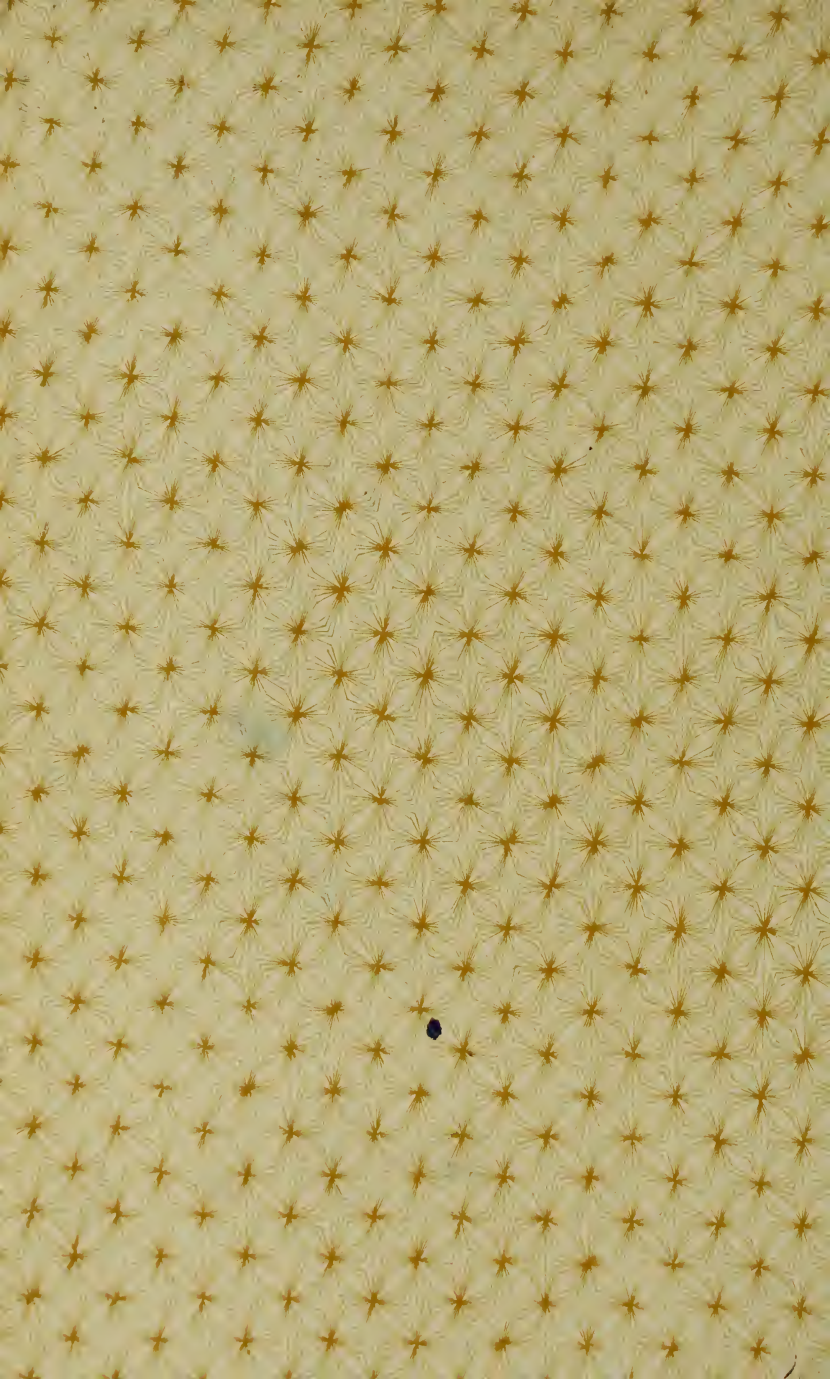
Biblical Literature	59
Biology	61
Chemistry	64
Economics and Sociology	68
Education	70
English	72
French	76
Geology and Mineralogy	78
German	80
Greek	82
History	86
Latin	88
Mathematics and Astronomy	91
Mechanical Drawing	96
Philosophy	97
Physical Training	99
Spanish	103
Description of Admission Subjects	32
Events of the Year	15
Exec. Com. of the Associated Students	126
Expenses	114
Faculty and Instructors	11
Fees	114
Form of Bequest	124
Friday Assembly	121
General Information	113
Glee Club	123

TABLE OF CONTENTS

147

Graduation	45
Grounds	20
Groups (Synopsis of)	50
Laboratories and Apparatus	22
Library	21
Literary Societies	122
Material Equipment	20
Occidental Academy	13, 123
Occidental College	5
Officers of Administration	13
Officers of the Alumni Association	125
Officers of the Trustees	10
Oratorical and Debating Contests	118
Physical Training	99, 119
Register of Students	135
Registration	113
Rhodes Scholarships	117
Schedule	105
Scholarships	117
Social Life	116
Special Students	32
Students at Large	32
Student Organizations	121
Student Publications	123
Synopsis of Groups	50
Trustees	9
Tuition and Fees	114







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